

ASTROGRAPHIC CATALOGUE

1900·0

OXFORD SECTION

DEC. + 24° TO + 32°

FROM PHOTOGRAPHS TAKEN AND MEASURED AT THE
UNIVERSITY OBSERVATORY, OXFORD

UNDER THE DIRECTION OF

HERBERT HALL TURNER, M.A., D.Sc., D.C.L., F.R.S.
SAVILIAN PROFESSOR OF ASTRONOMY

VOL. VII.

MEASURES OF
RECTANGULAR CO-ORDINATES AND DIAMETERS
OF 76409 STAR IMAGES

ON PLATES WITH CENTRES IN

DEC. + 25°



EDINBURGH

PRINTED FOR HIS MAJESTY'S STATIONERY OFFICE

By NEILL & COMPANY, LTD., BELLEVUE

1911

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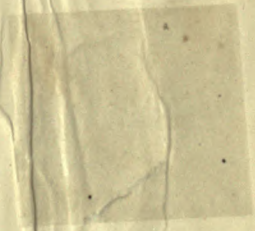
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ERRATA.

Most of the following errors in $+31^\circ$, $+30^\circ$, $+29^\circ$ to R.A. 18^h were found by independently inverting the measures made in the reverse position of the plate since the results have been printed; from that point to the end of Vol. VII. this independent inversion of the reverse measures was made during the time the proof sheets were passing through the press. Other errors were detected in the course of the comparison of more than 15,000 measures made on old and new plates in connection with the investigation of proper motions which has been in progress at this Observatory since the summer of 1908.

VOL. I. ZONE $+31^\circ$.

PAGE

3.	No. 864.	For $y = 17.911$	read 17.991.
5.	No. 1569.	„ $x = 13.330$	„ 13.300.
9.	No. 3318.	„ $y = 1.570$	„ 1.070.
12.	No. 4246.	„ $x = 6.650$	„ 5.650.
12.	No. 4317.	„ $x = 14.586$	„ 14.856.
15.	No. 5524.	„ $x = 12.899$	„ 11.899.
16.	No. 6189.	„ $x = 13.268$	„ 13.368.
18.	No. 6750.	„ $y = 21.138$	„ 21.038.
19.	No. 7097.	„ $x = 8.546$	„ 8.456.
24.	No. 9601.	„ $x = 0.815$	„ 1.815.
25.	No. 9833.	„ $y = 8.464$	„ 8.264.
33.	No. 12947.	„ $x = 3.386$	„ 2.386.
37.	No. 14326.	„ $x = 9.935$	„ 8.935.
39.	No. 15026.	„ $y = 21.255$	„ 21.355.
40.	No. 15449.	„ $y = 15.633$	„ 15.033.
41.	No. 15923.	„ $x = 25.542$	„ 22.542.
41.	No. 16015.	„ $x = 17.732$	„ 19.732.
44.	No. 17275.	„ $x = 22.025$	„ 23.025.
51.	No. 19828.	„ $x = 17.631$	„ 17.031.
53.	No. 20712.	„ $x = 21.266$	„ 21.366.
54.	No. 21194.	„ $x = 22.630$	„ 24.630.
58.	No. 22850.	„ $x = 25.948$	„ 25.748.
64.	No. 25293.	„ $x = 22.420$	„ 23.420.
69.	No. 27204.	„ $x = 17.397$	„ 17.597.
69.	No. 27279.	„ $x = 7.130$	„ 7.030.
75.	No. 29887.	„ $y = 17.675$	„ 17.475.
77.	No. 30578.	„ $x = 7.600$	„ 7.000.
90.	No. 35991.	„ $x = 19.972$	„ 18.972.
90.	No. 35995.	„ $x = 24.431$	„ 23.431.
97.	No. 38359.	„ $x = 24.717$	„ 25.717.
104.	No. 41451.	„ $x = 20.935$	„ 19.935.

PAGE

107.	No. 42623.	For $x = 9.941$	read 9.841.
109.	No. 43080.	„ $x = 3.364$	„ 3.464.
113.	No. 44824.	„ $x = 23.346$	„ 24.346.
113.	No. 44829.	„ $x = 0.194$	„ 1.194.
115.	No. 45560.	„ $x = 4.452$	„ 4.542.
118.	No. 46585.	„ $y = 13.967$	„ 13.767.
125.	No. 49161.	„ $x = 24.275$	„ 25.275.
126.	No. 49595.	„ $x = 0.044$	„ 1.044.
126.	No. 49786.	„ $y = 13.689$	„ 13.580.
136.	No. 53619.	„ $x = 2.085$	„ 3.085.
141.	No. 55340.	„ $x = 21.529$	„ 22.529.
150.	No. 58764.	„ $x = 15.518$	„ 16.518.
150.	No. 58979.	„ $x = 13.783$	„ 12.783.
151.	No. 59170.	„ $x = 2.866$	„ 1.866.
157.	No. 61494.	„ $y = 12.508$	„ 12.308.
157.	No. 61679.	„ $x = 16.755$	„ 17.755.
165.	No. 64633.	„ $x = 0.294$	„ 2.294.
167.	No. 65399.	„ $y = 20.887$	„ 20.687.
178.	No. 69825.	„ $x = 9.054$	„ 9.354.
179.	No. 70210.	„ $y = 22.007$	„ 22.067.
179.	No. 70250.	„ $y = 24.970$	„ 24.070.
180.	No. 70501.	„ $y = 11.838$	„ 11.538.
180.	No. 70571.	„ $y = 16.955$	„ 16.755.
180.	No. 70637.	„ $y = 19.780$	„ 19.980.
182.	No. 71158.	„ $x = 0.545$	„ 1.545.
183.	No. 71503.	„ $x = 0.385$	„ 0.285.
186.	No. 72899.	„ $y = 18.495$	„ 18.895.
187.	No. 73019.	„ $y = 2.289$	„ 2.889.
187.	No. 73024.	„ $x = 19.387$	„ 19.587.
187.	No. 73368.	„ $x = 22.454$	„ 22.254.

194. R.A. $1^h 43^m$. For C 1027. $\xi' = 25.1912$, $\eta' = 0.7040$, read C 1027a, 25.1796, 0.9019.
 195. R.A. $1^h 52^m$. For C 1027. $\xi' = 1.7959$, $\eta' = 0.6944$, read C 1027a, 1.7882, 0.8864.
 196. R.A. $3^h 13^m$. C 1655. For $\eta' = 0.5233$, read 0.5133.

VOL. II. ZONE + 30°.

PAGE

10. 1^h 30^m. The Constants, after correcting C 904 and C 906 for P.M.s, are $A = -.00061$, $B = +.00082$, $C = -.0216$, $D = -.00085$, $E = -.00027$, $F = -.1017$.
13. Insert an asterisk to No. 3922.
55. No. 20389. In some copies the figures are defective; they should be 13, 23'736, 21'832.
70. R.A. 11^h 6^m. For the printed Constants for A, B, C, read $-.00042$, $+.00921$, $-.5502$.

PAGE

13. No. 3987. For $x = 1.318$ read 0.318.	165. No. 63256. For $x = 1.910$ read 0.910.
16. No. 4833. „ $x = 5.194$ „ 9.194.	167. No. 63629. „ $x = 3.924$ „ 2.924.
27. No. 9337. „ $y = 20.494$ „ 20.594.	167. No. 63924. „ $x = 11.076$ „ 12.076.
30. No. 10558. „ $x = 24.672$ „ 25.672.	168. No. 64054. „ $x = 12.545$ „ 12.345.
41. No. 14719. „ $x = 8.372$ „ 9.372.	169. No. 64468. „ $y = 12.476$ „ 12.276.
49. No. 17759. „ $x = 22.999$ „ 21.999.	169. No. 64578. „ $y = 14.520$ „ 14.420.
55. No. 20100. „ $x = 1.703$ „ 6.703.	170. No. 64812. „ $y = 18.545$ „ 18.445.
62. No. 23386. „ $x = 4.520$ „ 14.520.	171. No. 65204. „ $y = 23.802$ „ 23.402.
63. No. 23588. „ $y = 11.766$ „ 11.966.	172. No. 65779. „ $y = 12.657$ „ 12.457.
72. No. 27115. „ $x = 2.283$ „ 2.483.	173. No. 66129. „ $x = 0.089$ „ 1.089.
83. No. 31685. „ $x = 20.955$ „ 19.955.	173. No. 66191. „ $x = 0.220$ „ 1.220.
86. No. 32662. „ $x = 20.306$ „ 20.206.	174. No. 66552. „ $x = 24.471$ „ 22.471.
89. No. 33819. „ $x = 23.357$ „ 22.357.	176. No. 67291. „ $x = 10.491$ „ 10.941.
89. No. 34015. „ $x = 24.217$ „ 23.217.	178. No. 67929. „ $x = 3.158$ „ 4.158.
97. No. 37028. „ $x = 17.942$ „ 16.942.	178. No. 68014. „ $x = 13.507$ „ 14.507.
115. No. 43803. „ $x = 7.990$ „ 6.990.	178. No. 68055. „ $x = 22.055$ „ 23.055.
121. No. 46223. „ $x = 13.440$ „ 13.140.	179. No. 68204. „ $x = 13.127$ „ 14.127.
164. No. 62486. „ $y = 14.127$ „ 14.427.	180. No. 68903. „ $x = 22.263$ „ 23.263.
164. No. 62490. „ $y = 14.800$ „ 14.780.	181. No. 68914. „ $x = 9.028$ „ 10.028.
164. No. 62749. „ $x = 0.095$ „ 1.095.	185. No. 70625. „ $x = 18.271$ „ 18.771.
165. No. 63231. „ $x = 1.968$ „ 0.968.	185. No. 70739. „ $x = 10.665$ „ 11.665.
200. R.A. 2 ^h 15 ^m . Insert, 3922. C 1265, $\xi' = 16.5614$, $\eta' = 11.0323$.	
201. R.A. 3 ^h 0 ^m . C 1560. For $\eta' = 6.9152$, read $\eta' = 6.9052$.	

VOL. III. ZONE + 29°.

PAGE

5. No. 514. For $x = 3.042$ read 4.042.
7. No. 1498. „ $y = 11.515$ „ 11.415.
8. No. 1853. „ $y = 3.985$ „ 3.895.
9. No. 2208. „ $x = 13.995$ „ 12.995.
9. No. 2336. „ $y = 8.394$ „ 8.594.
10. No. 2359. „ $x = 20.939$ „ 19.939.
10. No. 2472. „ $x = 20.777$ „ 19.777.
13. No. 3912. „ $y = 0.888$ „ 0.088.
16. No. 4842. „ $x = 25.590$ „ 24.590.
26. No. 8708. „ $x = 4.105$ „ 5.105.
26. No. 8709. „ $x = 4.120$ „ 5.120.
26. No. 8711. „ $x = 6.126$ „ 7.126.
26. No. 8770. „ $x = 20.907$ „ 21.907.
32. No. 11091. „ $x = 24.916$ „ 23.916.
32. No. 11219. „ $x = 12.270$ „ 13.270.

PAGE

33. No. 11460. For $x = 14.956$ read 13.956.
33. No. 11617. „ $x = 18.967$ „ 18.767.
36. No. 12890. „ $x = 11.187$ „ 10.187.
39. No. 14048. „ $x = 13.035$ „ 15.035.
42. No. 15078. „ $x = 23.364$ „ 24.364.
42. No. 15127. „ $x = 15.507$ „ 13.507.
42. No. 15128. „ $x = 15.974$ „ 13.974.
45. No. 16285. „ $x = 20.421$ „ 20.521.
46. No. 16804. „ $y = 4.945$ „ 4.045.
47. No. 16904. „ $x = 23.926$ „ 22.926.
48. No. 17280. „ $x = 17.932$ „ 16.932.
50. No. 18319. „ $x = 7.023$ „ 8.023.
53. No. 19273. „ $x = 22.438$ „ 23.438.
57. No. 21091. „ $x = 20.920$ „ 20.820.
77. No. 28729. „ $x = 10.763$ „ 14.763.

VOL. III. ZONE + 29°.—*continued.*

PAGE		PAGE	
77.	No. 28819. <i>For</i> $x = 3.695$ <i>read</i> 5.695 .	102.	No. 38704. <i>For</i> $y = 15.425$ <i>read</i> 15.525 .
83.	No. 31069. „ $x = 12.580$ „ 12.480 .	106.	No. 39911. „ $y = 1.581$ „ 1.481 .
88.	No. 32963. „ $x = 4.836$ „ 8.836 .	110.	No. 41832. „ $x = 0.035$ „ 1.035 .
91.	No. 34285. „ $x = 1.984$ „ 0.984 .	111.	No. 41999. „ $x = 12.606$ „ 11.606 .
99.	No. 37378. „ $x = 0.511$ „ 1.511 .	114.	No. 43095. „ $x = 6.434$ „ 6.634 .
100.	No. 37657. „ $x = 18.990$ „ 17.990 .	116.	No. 43789. „ $x = 16.526$ „ 16.426 .
101.	No. 38069. Omit the whole line.	132.	No. 50126. „ $y = 16.048$ „ 16.148 .
101.	No. 38319. <i>For</i> $y = 16.262$ <i>read</i> 16.622 .	147.	No. 55662. „ $y = 18.046$ „ 18.036 .

28. R.A. $3^h 49^m$. For the printed Constants $A = -.00011$, $B = +.01179$, $C = -.2428$,
read $A = -.00049$, $B = +.01189$, $C = -.2367$.

These alterations are not due to any mistake in computing, but to the distribution of the errors of the adopted star places, and this instance is only a rather extreme case of many improvements in the constants which must be reserved for Vol. VIII. Another instance is given under Vol. II.

188. R.A. $0^h 58^m$. C 601. *For* $\xi' = 6.7173$ *read* 6.7317 .
 191. R.A. $3^h 4^m$. C 1577. *For* $\eta' = 10.3158$ *read* 10.3058 .

VOL. IV. ZONE + 28°.

- PAGE
 14. No. 4247. *For* $y = 22.000$ *read* 22.003 .
 196. R.A. $0^h 36^m$. C 360. *For* $\eta' = 21.2169$ *read* 21.2022 .
 197. R.A. $1^h 8^m$. C 861. „ $\eta' = 2.1649$ „ 2.1749 .

VOL. V. ZONE + 27°.

- PAGE
 xiii. R.A. $4^h 20^m$. Plate 2537. *For* π xvi *read* π xvii.
 R.A. $4^h 52^m$. Plate 2717. „ π xvi „ π xvii.
 xix. *For* G. D. C. Stokes and G. S., *read* E. D. C. Stokes and E. S.
 xlviii. Table xvii. Under $\xi = 8$ and $\eta = 12.6$. *For* $.0238$ *read* $.0228$.
 65. No. 23981. *For* $y = 20.677$ *read* 20.667 .
 92. No. 35288. „ $x = 18.009$ „ 18.099 .
 92. No. 35326. „ $y = 13.136$ „ 13.036 .
 171. No. 65451*. „ $y = 2.350$ „ 2.356 .

VOL. VI. ZONE + 26°.

- PAGE
 7. No. 1578. Insert an asterisk.
 211. R.A. $0^h 32^m$. Insert, 1578, C 318, 9.4 , 37965, 9.4746 .
 213. R.A. $1^h 44^m$. C 1019. *For* $\eta' = 0.5442$ *read* 0.5542 .
 214. R.A. $2^h 0^m$. C 1099. „ $\xi' = 1.8596$ „ 1.8860 .

VOL. VII. ZONE + 25°.

For the following stars insert an asterisk after the number :—

Nos. 5038 (C 872a), 7764 (C 1389), 7786 (C 1385), 10501 (B 1096), 26973 (B 2761), 31235 (C 4329),
31247 (C 4354), 42302 (B 4916), 64500 (B 7361), 66410 (B 7573), and 66989 (C 11037).

PAGE

9. 1907. *For* $x = 16.969$ *read* 16.958 .
 9. 1958. Transfer the asterisk from 1958 to 1959.
 14. 3935. Transfer the asterisk from 3935 to 3936.
 21. 6832. *For* $y = 16.346$ *read* 16.337 .
 23. R.A. $2^h 28^m$. Constants D, E, F, *read* $+0.00246$, -0.00040 , -0.3563 .
 53. 19102. *For* $x = 16.750$, $y = 19.018$, *read* 16.761 , 19.032 .
 100. 36955. „ $y = 4.405$ *read* 4.505 .
 100. 37106. „ $x = 7.735$ „ 6.735 .
 106. 39480. „ $y = 16.887$ „ 17.887 .
 106. R.A. $11^h 32^m$. *For* $D = -0.00572$ *read* $+0.00572$.
 106. R.A. $11^h 48^m$. Plate 2769. For the Constants printed substitute these :—
 $A = -0.00011$ $B = -0.00562$ $C = +0.0786$ $D = +0.00503$ $E = -0.00006$ $F = -0.2050$.
 118. R.A. $15^h 8^m$. Plate 2739. *For* $C = -0.3918$ *read* $+0.3918$.
 119. R.A. $15^h 16^m$. Constants. *For* A, B, C as printed *read* -0.00035 , -0.01050 , $+0.3521$.
 133. For the last star the number should be 50627.
 232. R.A. $3^h 56^m$. *For* $\xi = 16.6117$ *read* 16.6034 .

I N D E X.

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OXFORD ASTROGRAPHIC CATALOGUE,

1900.

VOL. VII.

INTRODUCTION.

I.—HISTORICAL.

A general introduction to all the volumes of measures is given in Vol. I. In the subsequent volumes, II. to VI., and in the present volume, VII., such portions have been repeated as required modification from zone to zone, or were convenient as working directions. A final volume, VIII., is in course of preparation, giving various discussions relating to the whole work, and to this reference must be made for many matters which can only be treated completely after all the measures have been printed. But in this concluding volume of measures a few remarks may be made supplementary to those in the first volume.

Of the eighteen portions into which the Astrographic Catalogue was divided more than twenty years ago, this was the first portion completed and the second portion printed, after that at Greenwich. The others are in various stages, some barely commenced; and at the meeting of the Permanent Committee in Paris in 1909 no general desire was manifested to complete the work earlier than the year 1920 or 1925. The present writer cannot but feel that this is a grave misfortune, due to the mistaken policy of attempting too ambitious a programme. It should have been possible to complete the whole survey by this time, if economy of method had been studied. The necessity for a modest programme, if the work was to be completed within a reasonable time, was pointed out in 1887, but little heed has been paid to the warnings then given; and, in consequence, a survey of the whole sky, which might have been available now, is deferred for at least half a generation. At the present moment, not one volume of measures of any zone in the Southern Hemisphere (south of -3°) has been published, though more than twenty years have elapsed since the work was started.

These facts are recalled in defence of the strict economy which has been practised throughout the present portion of the work. This policy was adopted from the outset:

in the use of a micrometer scale instead of a screw (it is noteworthy that the two observatories which have completed their portions of the Catalogue have both used micrometer scales); in the refusal to have more to do with the cumbrous Equatorial co-ordinates than was absolutely necessary; in the refusal to measure completely thirty-four plates containing by accident some thousands of stars too many; in the adoption of three decimal places in the reductions and in the printing; and finally in the arrangement of the printed results themselves, where such luxuries as references to the *Bonn Durchmusterung* have been omitted. To adopt these restrictions in the face of the almost unanimous opposition of eminent colleagues has required some courage. Justification must be sought in the main result that the portion of the sky allotted to the Oxford University Observatory for survey in 1887 has by 1910 been surveyed, and the survey printed, so that the place of any one of nearly a quarter of a million stars, referred to any required system of axes, can be obtained in a few minutes, with the help of tables given at the beginning of each volume; and that this has been accomplished with the additions to the ordinary modest resources of the Observatory of:

(a) £600 for the telescope by the late Dr Warren de la Rue.

(b) £1300 from the Government Grant Fund of the Royal Society, spread over fourteen years, for the payment of computers.

(c) a subsidy of about £1200 from H.M. Government and the University of Oxford in equal shares for the expenses of printing the Catalogue. These facts should be borne in mind in any criticism of the extent or accuracy of the work now submitted.

The work has been printed in the sequence opposite to that of measurement. Zones $+25^\circ$, $+26^\circ$, and $+27^\circ$ were measured first, and higher declinations later, ending with $+31^\circ$. The printing was begun with $+31^\circ$, the last zone measured, as the latest work was naturally most satisfactory. Coming back to the earlier work, many of the plates were found to be below the standard which had gradually crystallised, and it was decided to take new plates and measure them. Needless to say, this meant a sensible and sometimes a serious addition to the work; and occasionally the printing has been delayed in order to secure a better plate of some particular region. But this repetition has proved unexpectedly profitable. A request from Professor Kapteyn, who is interested in the proper motions of faint stars, led to the provisional comparison of a few of the repeated plates with those taken and measured in the first instance. These trial comparisons showed that the number of sensible proper motions was small, but the information was of an interesting kind, and it was determined to compare all the repeated plates if funds could be obtained. Application was made to the Government Grant Fund for another £100 for this definite piece of work. The application was granted, and the comparison will be completed early in 1911. To show the general nature of the repetition the measures of eight plates in 13^h-14^h R.A. in the present zone have been given in full, the old measures in the regular sequence, and the new measures at the end, after $23^h 56^m$ R.A.

The number of plates repeated after ten years or more and measured is as follows :—

Zone.	Repeated Plates.
+30°	1
+29°	27
+28°	12
+27°	27
+26°	29
+25°	85
	<hr/>
	181

Besides these 181 plates, 129 revision plates with less than ten years' interval have been measured, and included in the printed volumes ; making a total of 310 plates revised.

The comparisons for proper motion have been limited to the cases of ten years' interval or more. Three preliminary papers on these proper motions have already been published, but for a complete discussion reference must be made to Vol. VIII. As a general result of some interest, it may be remarked that although a ten years' interval yields only a small number of sensible proper motions, a twenty years' interval promises to yield many more ; so that an advantageous repetition of the survey might be commenced in the near future. But it may be made in a leisurely manner, now that the ground has once been covered. Beginning with the oldest plates and proceeding in order of date, no doubt the experience gained with each successive plate will guide the course of the work. We were much more in the dark at the outset of the first survey.

In reviewing the numerous contributions to this extensive piece of work at Oxford, there is one name which stands out conspicuously above the rest. Mr F. A. Bellamy, Hon. M.A., has himself taken the great majority of the plates and developed nearly all. He has measured many himself, superintended the measures and reductions throughout, revised the whole of the work for press, read many of the proof-sheets, and examined every one of them critically. He is one of the few people who have been associated with the whole course of a completed portion of the work from beginning to end ; and the University has recognised the value of his services by conferring upon him the degree of M.A. *honoris causa*.

One other name may be specially mentioned. Mr T. J. Moore, a working gardener living near Doncaster, has measured altogether 136,766 stars, each in two positions of the plate, given on 301 plates in the seven volumes, besides some thousands of stars on the earlier plates, with a micrometer lent to him for the purpose. He has been paid on a very modest scale for the time spent ; but his devotion to the work and the pride he has taken in doing it have been those of the amateur.

The following is a complete list of those who have taken part in the work :—

Name.	Limiting Dates.	Initials.
Prof. H. H. Turner	From 1893 Dec. 1	HT
Mr F. A. Bellamy	From 1892 Sept. 1	FB
Mr F. W. A. Bennett	1893 Mar.—1897 Mar. 11	B
Miss K. E. Turner	1894 Oct.—1896 Nov.	KT
Mr J. Fairgrieve	1895 Jan.—1895 July	JF
Mr H. A. Freeborn	1895 Oct. 14—1898 July 29	F
Mr R. J. Horsley	1896 May 22—1898 July 30	H
Mr F. C. H. Carpenter	1896 Sept. 11—1899 Sept. 16	C
Mr T. J. Moore	1896 Oct.—1910 May	TM
Mr H. F. Mullis	1896 Nov. 2—1901 July 13	M
Mr A. C. Garland	1897 Feb. 1—1897 Apr. 30	G
Mr B. G. C. Gray	1897 Aug. 9—1904 Dec. 31	BG
Mr F. W. Henkel	1897 Aug. 30—1898 July 9	FH
Miss E. F. B. Bellamy	1899 July—present time	EB
Mr E. A. Gray	1900 Jan.—1905 Apr. 30	EG
Mr S. C. Cole	1900 Feb. 12—1901 Feb. 25	SC
Mr F. H. Scragg	1901 July 29—1905 July 15	S
Mr H. C. Plummer	1901 Aug 1—present time	P
Mr F. F. Lovegrove	1902 July 7—1904 Oct. 31	L
Mr A. C. T. Roberts	1906 Jan. 29—1907 June 5	R
Mr O. J. B. Cole	1906 Nov. 1—1909 Oct. 9	OC
Mr G. H. Hamilton	1908 Oct.—1910 Oct.	GH
Mr E. D. C. Stokes	1909 May—1909 Sept. 1910 April—1910 Aug.	ES
Mr J. H. Joy	1909 July—1909 Sept.	J

Besides the above, who have measured one or more plates, Mr W. E. Plummer (until 1892 September 15), Mr C. A. Jenkins (until 1893 April 6), Mr G. F. H. Smith (New College), Mr. P. A. Sleeman (Magdalen College), Mr S. C. Cook (1906 November 1—1908 April 30), Mr A. B. Chatwood, Mr G. H. Worthington (Wadham College), and Mr W. F. H. Waterfield (Ch. Ch.) have also assisted in some part of the work.

In Vol I., Introduction pp. xii.—xvi., is given a list of various papers relating to the work published by members of the Staff, up to June 1905. To these may be added the following, since published :—

“On the possibility of improving the places of the Reference Stars for the Astrographic Catalogue from the Photographic Measures.” By H. H. Turner, *Mon. Not. R.A.S.*, lxvii. p. 108 (Dec. 1906).

“On the Measurement of a Meteor Trail on a Photographic Plate.” By H. H. Turner, *Mon. Not. R.A.S.*, lxvii. p. 562 (Nov. 1907).

"Note on A. G. C. Camb. 2992." By H. H. Turner, *Ast. Nach.*, Band 177, Nr. 4240, p. 249.

"On the relative numbers of Star Images photographed in different parts of the Plates for the Oxford portion of the Astrographic Catalogue." Second Paper. By H. H. Turner, *Mon. Not. R.A.S.*, lxviii. p. 397 (Mar. 1908).

"On the relation between Intensity of Light, Time of Exposure, and Photographic Action." By H. H. Turner, *Brit. Assoc. Report*, 1908.

"Note on the number of Faint Stars with large Proper Motions." By H. H. Turner, *Mon. Not. R.A.S.*, lxix. p. 57 (Nov. 1908).

"The Relations between Position Angle and Distance and Standard (photographic) Co-ordinates." By H. C. Plummer, *Mon. Not. R.A.S.*, lxix. p. 100 (Dec. 1908).

"A method for the reduction of Comet Photographs." By H. C. Plummer, *Mon. Not. R.A.S.*, lxix. p. 191 (Jan. 1909).

"The new Variable 2·1909 Andromedæ." By H. H. Turner, *Ast. Nach.*, Band 180, Nr. 4307, p. 184.

"A proposal for the Comparison of the Stellar Magnitude Scales of the different Observatories taking part in the Astrographic Catalogue." By H. H. Turner, *Mon. Not. R.A.S.*, lxix. p. 392 (Mar. 1909).

"Second Note on the number of Faint Stars with large Proper Motions." By H. H. Turner, *Mon. Not. R.A.S.*, lxix. (Apr. 1909).

"On the Diagrammatic Representation of Proper Motions." By H. H. Turner, *Mon. Not. R.A.S.*, lxx. p. 204 (Jan. 1910).

"Third Note on the number of Faint Stars with large Proper Motions." By H. H. Turner, *Mon. Not. R.A.S.*, lxx. p. 20 (Nov. 1910).

II.—THE INSTRUMENT.

The photographic telescope, which was presented to the University in honour of Professor Pritchard by the late Dr Warren de la Rue, is rigidly attached to the 12 $\frac{1}{4}$ -inch visual telescope erected in 1874. The dome is of 23 feet diameter, and the top of the circular wall on which it rests is at a height of 26 $\frac{1}{2}$ feet above the ground, forming the S.W. corner of the Observatory buildings. The original dome had become faulty in a number of ways, and was replaced, in May–August 1900, by a new one of papier-mâché.

The pier for the telescope is isolated from the floor, and goes through the computing room below and through the basement below that. It is built on a foundation of concrete 9 feet long, 7 feet wide, 4 $\frac{1}{2}$ feet deep, and tapers off to 4 $\frac{1}{2}$ feet by 3 feet at the top, which is 23 feet above the base.

The instrument was constructed by Sir Howard Grubb, F.R.S., on the lines laid down by the *Congrès Astrophotographique International pour le Levé de la Carte du Ciel* in 1887. It consists of a 13-inch photographic telescope mounted parallel to the 12 $\frac{1}{4}$ -inch visual telescope, the steel tubes being firmly connected. The equatorial mounting

is of the German form. The apertures of the object-glasses are $13^{\text{in}}.0$ or $0^{\text{m}}.33$ and $12^{\text{in}}.3$ or $0^{\text{m}}.31$ respectively, and the focal lengths are 11 feet 4 inches ($= 3^{\text{m}}.44$) and 14 feet 6 inches ($= 4^{\text{m}}.4$); so that on the photographic plate 1^{mm} represents approximately $1'.0$ [more exactly, the focal length of the photographic telescope is $3^{\text{m}}.457$, so that 1^{mm} represents $0'.992$]. The photographic telescope is corrected as regards spherical and chromatic aberration for rays near Fraunhofer's line G. It is arranged to carry a plate 16^{cm} square, with special provision for exact focussing and orientation. The eye-piece of the $12\frac{1}{4}$ -inch visual telescope is mounted on cross slides parallel and perpendicular to the equator, which are furnished with scales reading to $2''$, and permit of the observation of a guiding star to a distance of $40'$ from the centre of the field. The mounting is arranged so as to allow of motion up to and beyond the meridian on each side without reversing the telescope, for declinations used in the present work.

The photographs for the Astrographic Catalogue were all taken with the telescope west of the pier, and usually within $1\frac{1}{2}^{\text{h}}$ of the meridian (see tables of details of plates). In this position the guiding telescope is below the photographic telescope when the instrument is pointing south. The focal adjustment was made so that the plate was placed somewhat within the focus for the centre of the plate, *i.e.* focussed on a circle of radius about $32'$, so as to equalise the definition as far as practicable over the field (see *Mon. Not. R.A.S.*, lxii. p. 434). During the whole period up to 1907 November, no alteration was deliberately made in the focal adjustment or in the tilt of the object-glass; but the photographic object-glass was removed from its cell, and the lenses separated and cleaned, on 1894 March 7; and during the construction of the new dome in the summer of 1900, the object-glass was dismounted, and replaced as accurately as possible afterwards. In 1905 the object-glass was taken to Egypt for observations of the Total Solar Eclipse. In 1907 November, the whole instrument was dismounted for cleaning and repair by Mr A. B. Chatwood, and re-erected by 1908 January. The lenses of the object-glasses were separated and cleaned during the interval. The plates in the present volume may therefore be grouped for some purposes as follows:—

Before 1894 March 7	(Plates 69-516)	21 plates.
1894 March 8 to 1900 May 7	(„ 517-1557)	63 „
1900 August 13 to 1905 May 5	(„ 1558-2449)	30 „
1905 May 5 to 1907 November 14	(„ 2450-2623)	0 „
1908 January 11 to 1910 May 8	(„ 2624-2841)	66 „

The photographic plate rests on three rounded agate points. These points have undoubtedly worn down during the work, and there has thus probably been a gradual change of focal adjustment. Evidence of this change was found by counting the stars in different parts of plates taken early and late (*Mon. Not. R.A.S.*, lxii. p. 444 and lxviii. p. 397), and further details are being collected. If results of value are obtained, they will be given in Vol. VIII. of these observations.

Meantime the star density on the average plate at different distances from the centre may be taken approximately as below (*loc. cit.*):—

Distance from Centre,	0'	10'	20'	30'	35'	40'	50'	60'	70'	80'
No. of Stars,	86	86	90	95	100	95	90	78	64	50

Adjustments of Equatorial.

For plates of about 30° declination taken near the meridian the adjustments of the equatorial are not very important, and no particular attention was paid to them.

A pendulum control was at one time fitted to the driving-clock of the equatorial, but had been dismantled before 1892. There is an electric hand-control which was used throughout the working to correct small irregularities of driving due to refraction or imperfect adjustment.

No attempts were made to correct mechanically the orientation of the plates. The wearing of the agate side-bearings has no doubt caused a gradual change in the orientation with respect to the telescope head; but since experience showed that this did not remain accurately the same for consecutive plates, there was no particular advantage in spending time in adjustment, so long as the orientation did not become inconveniently large.

III.—PHOTOGRAPHIC.

For the great majority of the photographs of the Astrographic Catalogue, three exposures of 6^m , 3^m , and 20^{sec} were given, the telescope being displaced in declination between the exposures.

On measuring some of the early plates, the number of stars was found to be too small, as compared with the number shown in the *Bonn Durchmusterung*. From 1898 (Jan.) the number of stars on each plate was counted before commencing measurement, a "billiard-marker" being used in the counts, so that the observer could record, without removing his eye from the microscope, the number of stars showing the 20^{sec} exposure (all three images) with the spot-ball marker, and the number showing only two images (6^m and 3^m) with the white-ball marker. The rule was to reject plates which did not show with two images at least three times the number of stars recorded by Argelander; but this rule was not always adhered to, as in the present volume there are fourteen plates which fall slightly below this standard.

The most sensitive plates were used:—from 1892 Jan. 1 (plate 69) to 1894 Nov. 17 (plate 564), either Ilford "Special Rapid" or Mawson and Swan's "Stellar"; from 1894 Nov. 19 (plate 565) to 1895 Aug. 31 (plate 833), Mawson and Swan's "Stellar"; from 1895 Aug. 31 (plate 834) to 1897 Jan. 27 (plate 1075), Mawson and Swan's "Stellar" or Elliott's "Rocket"; from 1897 July 13 (plate 1076) to 1907 May 6, Elliott's "Rocket" plates (to plate 2668); from 1907 May 6 (plate 2669) to 1910 Jan. 25 (plate 2808) Ilford "Monarch" plates; and since then Lumiere's "Sigma" plates have been used. Special thin plate glass has been used, except for a few plates taken at the end of 1892, which were on ordinary glass and have been superseded by later photographs, and for the "Sigma" plates, which are plate glass of $2\frac{1}{2}$ to 3^{mm} in thickness.

The tables of details of the plates show the particular plate and *développeur* used.

From 1900 Sept. 19 to 1901 Mar. 21 (plates 1607 to 1733) all the plates taken were for the planet Eros or Nova Persei.

The *réseau* which is photographed on each plate, to facilitate the measurement, is a film of silver on glass, on which lines are traced with a ruling machine in perpendicular directions at distances of 5^{mm}. or 5^{mm}.04 apart. The latter distance was adopted to compensate for the too great focal length of the telescope, which should have been such as to give 1^{mm}. = 1'·0, but actually gave 1'·0 = 1^{mm}.008. But the ruling was naturally more difficult, and it was not until the third attempt that a satisfactory *réseau* was produced, there being a line misplaced in each of the two former. Unfortunately, the first error was not discovered until 33 plates had been taken which it was considered desirable to measure, and a troublesome allowance for the error was necessary; none of these plates have been used in this volume. The following is a list of *réseaux* used at the Observatory, the particular one used for each plate being specified in the tables of details.

List of Réseaux used at Oxford.

Oxford No.	Maker.	Limiting Dates.	Plates.	Value of one Interval.
I.	Vogel	To 1892 Jan.	1-68	mm. 5·00
II.	Gautier (No. 22)	1892 Jan. — 1895 Mar.	69-707	5·00
III.	Gautier (No. 64)	1895 Mar. — 1897 Nov.	708-1158	5·00
IV.	Gautier	1897 Dec. — 1898 Apr.	1159-1191	5·04
V.	Gautier	—	none	5·04
VI.	Gautier	1898 July — 1906 June 19	1198-2477	5·04
VII.	Gautier	1906 June 20 and after	2478 (in use)	5·04

Plate 69 was the first plate taken for the Astrographic Catalogue, so that No. I. was not really used. No. IV. was found to have the line $x=17$ misplaced by 0·025, and its use was discontinued. On receipt of No. V., its spaces were tested by copies on plates without stars, and line $y=3$ was found to be misplaced; hence No. V. has not been used.

The *réseau* was imprinted on the plates after exposure to stars (and before development) by exposure to a gas jet or electric light at a distance of 15 feet, the *réseau* and plate being separated by an edging of paper 0^{mm}.1 thick. The light was thus not quite parallel, the rays to opposite edges of the plate being inclined at an angle of 2°; but the immediate effect could only be a very slight alteration of apparent scale value of the plate, and the second order quantities would be quite insensible.

The following table gives the details of the plates in the present volume.

The *first* column is the number of the plate in the Oxford series.

The *second* column gives the date of exposure to '001 of a year. The day will be found in the section of measures, in the heading. The sidereal time can be inferred from the fourth column.

The *third* column gives the theoretical R.A. of plate centre. The inevitable deviations are given in the headings to the measures.

The *fourth* column gives the Hour Angle for the middle of the 6^{min.} exposure, which alone was measured. Clock errors have been applied to give Oxford sidereal time to 1^{sec.}; but it was considered sufficient to give the result to the nearest minute.

The *fifth* column gives the durations of exposure. The image of the longest exposure alone was measured, the others serving merely for identification of stellar objects.

The *sixth* column indicates the observer who made the exposures at the telescope; see list on pp. xi and xii of the Introduction to Vol. I. and p. xii of Vol. VII.

The *seventh* column indicates not only the class of plate, but the particular batch of plates from which it came, by means of the maker's number. The developers for this particular zone were mainly Hydrokinone (H.), Eikonogen (E.), and, after 1908 June, Pyrogallie acid and soda (PS.), with or without Metol and Hydrokinone (MH.); for a few plates other developers were used.

The *eighth* column shows the *réseau* used; see list on p. xvi.

The *ninth* column shows which micrometer of seven (α , β , γ , δ , λ , μ , π) was used in measuring the plate, and which scale was used in the eye-piece. The instrument marked β_1 is mainly the same as β , and δ_1 is similarly the same as δ , new glass scales and objectives by Zeiss having been adapted to them.

The *tenth* column gives the initials of the measurer of the plate; see list in Vol. I., pp. xi and xii, Vol. V., p. xix, and the present volume, pp. xxiv and xxv. The letter V is used where several measurers were concerned; see explanation on p. xxiv.

The *eleventh* column gives the total number of stars measured.

The *twelfth* column gives the ratio of the number measured to the number of stars shown in the corresponding area on Argelander's Chart, obtained by cutting out a mask of suitable size, placing it central over a given spot, and counting the star images shown—approximate accuracy only being aimed at. In most cases this ratio exceeds 3.0.

The *thirteenth* column gives the number of stars in the corresponding region of the catalogues of the *Astronomische Gesellschaft* for 1875.0.

The *fourteenth* column shows the interval between the taking of the plate and its measurement, and may be of interest in discussing the fading of star images with time, or, in the light of a recent paper by the late Dr T. H. Thiele in No. 4224 of the *Astronomische Nachrichten*, possible slight change of position.

List of Plates in the present Volume, Centres in + 25° Dec.

No. of Plate.	Year and Fraction.	R.A. of Centre.	Hour Angle.	Exposures.	Observers.	Plate and Developer. (E. = Eikonogen.) (H. = Hydrokinone.) (MH. = Metol + Hydrol.) (PS. = Pyrog. + Soda.)	Réseau.	Instrument and Scale.	Measurer.	No. of Stars.	Ratio to B.D.	No. in A.G.C.	Interval between Exposure and Measurement.
		h m	h m	m m s									Months.
250	1892.928	0 4	0 40 W.	6, 3, 30	FB	Mawson ; H.	ii.	μ iv.	TM	300	5.9	28	50
873	1895.750	0 12	1 8 E.	6, 3, 20	FB	Rocket 1162 ; E.	iii.	μ iv.	TM	549	8.4	40	17
874	1895.750	0 20	0 57 E.	6, 3, 20	FB	,, , ; ,	iii.	μ iv.	TM	567	8.1	40	19
875	1895.750	0 28	0 46 E.	6, 3, 20	FB	,, , ; ,	iii.	μ iv.	TM	532	7.8	33	19
876	1895.750	0 36	0 41 E.	7, 3, 20	FB	,, , ; ,	iii.	μ iv.	TM	471	7.4	28	20
877	1895.750	0 44	0 30 E.	6, 3, 20	FB	,, , ; ,	iii.	μ iv.	TM	550	9.5	29	20
2698	1908.939	0 52	1 39 W.	6, 3, 20	FB	Monarch 3394 ; MH.	vii.	γ viii.	FB	218	3.9	30	2
878	1895.750	1 0	0 27 E.	7, 3, 20	FB	Rocket 1162 ; E.	iii.	μ iv.	TM	531	9.5	23	21
879	1895.750	1 8	0 16 E.	6, 3, 20	FB	,, , ; ,	iii.	μ iv.	TM	429	6.2	28	21
2694	1908.857	1 16	1 26 E.	6 $\frac{1}{2}$, 3 $\frac{1}{2}$, 20	FB	Monarch 3394 ; MH.	vii.	β , xiii.	TM	201	3.1	30	3
2696	1908.857	1 24	0 55 E.	6, 3, 20	FB	,, , ; ,	vii.	β , xiii.	TM	306	5.2	20	3
2725	1909.142	1 32	3 25 W.	6 $\frac{3}{4}$, 4, 20	FB	,, 3750 ; PS, MH.	vii.	β , xiii.	TM	163	3.5	21	8
880	1895.750	1 40	0 8 W.	6, 3, 20	FB	Rocket 1162 ; E.	iii.	γ viii.	TM	347	5.6	28	23
2726	1909.142	1 48	3 31 W.	6, 3, 20	FB	Monarch 3750 ; PS, MH.	vii.	β , xiii.	TM	124	2.0	29	9
881	1895.750	1 56	0 11 W.	6, 3, 20	FB	Rocket 1162 ; E.	iii.	γ viii.	TM	472	9.8	28	23
2697	1908.857	2 4	1 14 E.	6, 3, 20	FB	Monarch 3394 ; MH.	vii.	β , xiii.	TM	379	8.4	25	$\frac{1}{2}$
1260	1898.988	2 12	1 26 E.	6, 2, 60	C	Rocket 2152 ; E.	vi.	γ viii.	TM	193	3.9	17	3
1487	1900.044	2 20	1 9 W.	7 $\frac{1}{2}$, 3, 60	FB	,, 2597 ; ,	vi.	α vi.	M	307	4.6	23	$\frac{1}{2}$
2691	1908.810	2 28	1 56 E.	6, 3, 20	FB	Monarch 3394 ; MH.	vii.	β , xiii.	TM	186	4.1	16	4
1261	1898.988	2 36	1 31 E.	6, 3, 60	C	Rocket 2152 ; E.	vi.	γ viii.	TM	216	4.2	19	3
1262	1898.988	2 44	1 19 E.	6, 3, 60	C	,, , ; ,	vi.	δ ix.	C	258	6.3	18	2
1263	1898.988	2 52	1 6 E.	6, 3, 60	C	,, , ; ,	vi.	α vi.	M	272	5.3	19	2
1264	1898.988	3 0	0 53 E.	6, 3, 60	C	,, , ; ,	vi.	α vi.	M	290	5.2	24	2
2708	1909.118	3 8	2 23 W.	6, 3, 20	FB	Monarch 3750 ; PS.	vii.	β , xiii.	TM	290	4.7	28	9
2701	1909.027	3 16	0 11 E.	6, 3, 20	FB	,, , ; MH.	vii.	β , xiii.	TM	254	4.8	28	1
2706	1909.049	3 24	0 29 W.	6, 3 $\frac{1}{2}$, 20	FB	,, , ; PS.	vii.	β , xiii.	TM	325	5.7	26	11
2705	1909.049	3 32	0 3 W.	6, 3, 20	FB	,, , ; ,	vii.	β , xiii.	TM	293	4.4	29	11
1266	1898.988	3 40	0 37 E.	6, 3, 60	C	Rocket 2152 ; E.	vi.	β , xiii.	TM	509	7.7	59	10
1277	1899.068	3 48	0 24 E.	6, 3, 60	C	,, , ; H.	vi.	α vi.	M	290	4.1	39	3
1278	1899.068	3 56	0 15 E.	6, 2 $\frac{11}{12}$, 60	C	,, , ; ,	vi.	δ ix.	C	286	4.5	28	1
1279	1899.068	4 4	0 6 E.	6, 3, 60	FB	,, , ; ,	vi.	δ ix.	C	200	4.5	17	3
1280	1899.068	4 12	0 1 W.	6, 3, 60	C	,, , ; E.	vi.	α vi.	M	288	6.4	17	2
1281	1899.068	4 20	0 9 W.	6, 3, 60	FB	,, , ; ,	vi.	δ ix.	C	226	6.7	14	2
1282	1899.068	4 28	0 17 W.	6, 3, 60	C	,, , ; ,	vi.	γ viii.	TM	143	7.1	10	3
1283	1899.068	4 36	0 32 W.	8, 3, 60	FB	,, , ; ,	vi.	γ viii.	TM	136	4.0	10	1
1284	1899.068	4 44	0 41 W.	6, 3, 60	FB	,, , ; ,	vi.	γ viii.	TM	180	3.9	19	1
2709	1909.118	4 52	1 7 W.	6, 3, 20	FB	Monarch 3750 ; PS.	vii.	β , xiii.	TM	301	7.0	28	11
1285	1899.068	5 0	0 45 W.	6, 3, 60	C	Rocket 2152 ; E.	vi.	α vi.	M	385	7.5	28	2
2795	1909.916	5 8	1 19 E.	7, 3 $\frac{1}{2}$, 20	FB	Monarch 3394 ; PS, MH.	vii.	γ xvi.	P	668	12.4	31	1
2797	1909.916	5 16	0 44 W.	6, 3, 20	FB	,, , ; ,	vii.	γ xvi.	FB	360	8.4	20	$\frac{1}{2}$
2727	1909.142	5 24	0 19 W.	6, 3, 20	FB	Monarch 3750 ; ,	vii.	β , xiii.	TM	265	3.0	24	10
2711	1909.118	5 32	1 12 W.	6, 3, 20	FB	,, , ; PS.	vii.	β , xiii.	TM	881	5.3	60	1
2796	1909.915	5 40	1 25 E.	6, 3, 20	FB	,, 3394 ; PS, M.	vii.	β , xiii.	TM	1367	7.9	72	1
498	1894.060	5 48	0 55 E.	6, 3, 20	FB	Mawson 5958 ; H.	ii.	α ii, α vi.	M&V	572	4.1	59	43
2712	1909.118	5 56	1 9 W.	6, 3, 20	FB	Monarch 3750 ; PS.	vii.	β , xiii.	TM	1449	9.3	66	3

No. of Plate.	Year and Fraction.	R.A. of Centre.	Hour Angle.	Exposures.	Observers.	Plate and Developer. (E. = Eikonogen.) (H. = Hydrokinone.) (MH. = Metol + Hydrol.) (PS. = Pyrog. + Soda.)	Réseau.	Instrument and Scale.	Measurer.	No. of Stars.	Ratio to B.D.	No. in A.G.C.	Interval between Exposure and Measure- ment.
		h m	h m	m m s									Months.
2713	1909:118	6 4	1 25 W.	6, 3, 20	FB	Rocket 7058 ; PS.	vii.	β_1 xiii.	TM	1285	7.7	52	9
2703	1909:027	6 12	0 7 E.	6, 3, 20	FB	Monarch 3750 ; MH.	vii.	β_1 xiii.	TM	863	5.5	41	1
2438	1905:244	6 20	2 21 W.	6, 3, 20	FB	Rocket 6758 ; E.	vi.	β_1 xiii.	TM	1061	6.9	53	40
2429	1905:219	6 28	2 8 W.	6, 3, 20	S	,, , ; ,	vi.	β_1 xiii.	TM	1365	9.9	37	41
2439	1905:244	6 36	2 24 W.	6, 3, 20	S	,, , ; ,	vi.	β_1 xiii.	TM	514	3.2	53	47
500	1894:060	6 44	1 8 E.	6, 3, 20	FB	Mawson 5958 ; H.	ii.	α vi.	M	495	3.8	45	42
2430	1905:233	6 52	1 10 W.	6, 3, 20	S	Rocket 6758 ; E.	vi.	β_1 xiii.	TM	1362	10.9	47	43
2440	1905:244	7 0	2 19 W.	6, 3, 20	FB	,, , ; ,	vi.	β_1 xiii.	TM	1084	9.4	49	44
501	1894:060	7 8	1 3 E.	6, 3, 20	FB	Mawson 5958 ; H.	ii.	α vi.	H	417	3.7	62	41
2441	1905:244	7 16	2 19 W.	6, 3, 20	S	Rocket 6758 ; E.	vi.	β x.	S	693	7.0	40	3
1328	1899:148	7 24	0 46 E.	6, 3, 60	C	,, 2152 ; ,	vi.	α vi.	M	489	5.0	41	1
1360	1899:225	7 32	0 15 W.	6, 3, 60	FB	,, 2597 ; ,	vi.	γ viii.	TM	429	4.9	37	2
1337	1899:151	7 40	0 40 E.	6, 3, 60	FB	,, 2152 ; ,	vi.	γ viii.	TM	646	8.8	33	3
1338	1899:151	7 48	0 23 W.	3, 3, 60	FB	,, 2152 ; ,	vi.	γ viii.	TM	324	4.3	28	3
1516	1900:214	7 56	1 17 W.	6, 3, 60	FB	,, 2827 ; ,	vi.	β vii.	EB	318	3.6	57	$\frac{1}{2}$
2816	1910:093	8 4	0 43 W.	6, 3, 20	P	Sigma 3653 ; PS, MH.	vii.	β_1 xiii.	TM	665	8.2	40	1
2424	1905:183	8 12	0 51 E.	6, 3, 20	S	Rocket 6758 ; E.	vi.	β x.	S	370	5.4	30	1
2442	1905:244	8 20	1 32 W.	6, 3, 20	S	,, , ; ,	vi.	β_1 xiii.	TM	439	6.7	27	44
1342	1899:183	8 28	1 5 E.	6, 3, 60	C	,, 2152 ; ,	vi.	γ viii.	TM	309	4.9	34	$\frac{1}{2}$
2803	1910:049	8 36	1 14 E.	6, 3, 20	FB	Monarch 3928 ; PS, MH.	vii.	γ xvi.	P	363	6.0	28	1
1343	1899:183	8 44	1 1 E.	6, 3, 60	C	Rocket 2152 ; E.	vi.	γ viii.	TM	318	5.3	21	5
2443	1905:244	8 52	1 23 W.	6, 3, 20	P	,, 6758 ; ,	vi.	β_1 xiii.	TM	290	5.5	31	44
2444	1905:244	9 0	1 41 W.	6, 3, 20	P	,, , ; ,	vi.	β_1 xiii.	TM	191	3.7	19	44
1361	1899:225	9 8	0 57 E.	6, 3, 60	FB	,, 2597 ; ,	vi.	γ viii.	TM	175	3.1	21	2
2426	1905:183	9 16	1 15 E.	6, 3, 20	S	,, 6758 ; ,	vi.	β_1 xiii.	TM	280	5.4	19	45
1537	1900:298	9 24	1 23 W.	6, 3, 60	FB	,, 2827 ; ,	vi.	α vi.	EG	253	3.8	25	1
2427	1905:183	9 32	1 12 E.	6, 3, 20	FB	,, 6758 ; E.	vi.	β_1 xiii.	TM	237	4.1	18	45
2744	1909:148	9 40	0 11 W.	6, 3, 20	FB	Monarch 3750 ; MH, PS.	vii.	β_1 xiii.	TM	199	3.4	29	12
1364	1899:225	9 48	0 45 E.	6, 3, 60	FB	Rocket 2597 ; E.	vi.	γ viii.	TM	146	2.4	28	2
2434	1905:233	9 56	0 14 E.	6, 3, 20	S	,, 6758 ; ,	vi.	β_1 xiii.	TM	195	4.8	21	45
2817	1910:159	10 4	1 21 E.	6, 3, 20	FB	Sigma 3653 ; PS, MH.	vii.	γ xvi.	P	348	8.9	25	$\frac{1}{2}$
2818	1910:159	10 12	0 56 E.	6, 3, 20	FB	,, , ; ,	vii.	γ xvi.	FB	357	8.3	18	$\frac{1}{2}$
1519	1900:214	10 20	0 7 E.	6, 3, 60	FB	Rocket 2827 ; E.	vi.	α vi.	BG	232	4.5	29	$\frac{1}{2}$
2819	1910:159	10 28	0 49 E.	6, 3, 20	FB	Sigma 3653 ; MH, PS.	vii.	β_1 xiii.	TM	362	8.4	30	$\frac{1}{2}$
1389	1899:301	10 36	0 42 W.	6, 3, 60	FB	Rocket 2597 ; E, H.	vi.	γ viii.	TM	150	2.8	29	1
1390	1899:301	10 44	0 51 W.	6, 3, 60	C	,, , ; ,	vi.	γ viii.	TM	133	2.8	20	1
2729	1909:142	10 52	0 36 E.	6, 3, 20	FB	Monarch 3750 ; PS, MH.	vii.	β_1 xiii.	TM	172	3.3	21	12
2730	1909:142	11 0	0 26 E.	6, 3, 20	FB	,, , ; ,	vii.	β_1 xiii.	TM	173	4.8	21	12
1391	1899:301	11 8	0 43 W.	6, 3, 60	C&M	,, 2597 ; E, H.	vi.	γ viii.	TM	102	2.9	18	1
1392	1899:334	11 16	0 16 W.	6, 3, 60	C	,, 2597 ; ,	vi.	γ viii.	TM	130	3.4	23	3
2731	1909:142	11 24	0 31 E.	6, 3, 20	FB	,, 3750 ; PS, MH.	vii.	γ xvi.	FB	160	3.2	21	13
2768	1909:282	11 32	1 47 E.	6, 3, 18	FB	,, 3928 ; ,	vii.	γ xvi.	FB	116	3.2	23	11
2732	1909:142	11 40	0 24 E.	6, 3, 20	FB	,, 3750 ; ,	vii.	π xvii.	GH	164	4.6	19	10
2769	1909:282	11 48	1 44 E.	6, 3, 20	FB	,, 3928 ; ,	vii.	γ xvi.	FB	120	2.7	18	11
2770	1909:282	11 56	1 29 E.	6, 3, 20	FB	,, , ; ,	vii.	β_1 xiii.	TM	124	2.5	27	11
2771	1909:282	12 4	1 15 E.	6, 3, 20	FB	,, , ; ,	vii.	β_1 xiii.	TM	133	2.9	17	11
2799	1909:967	12 12	0 16 E.	6, 3, 20	FB	,, 3982 ; ,	vii.	β_1 xiii.	TM	157	3.4	18	3
2800	1909:967	12 20	0 56 W.	6, 3, 20	FB	,, , ; ,	vii.	β_1 xiii.	TM	163	3.4	21	3
2798	1909:967	12 28	0 52 E.	6, 3, 20	FB	,, , ; ,	vii.	β_1 xiii.	TM	153	3.8	19	3
2772	1909:282	12 36	1 26 E.	6, 3, 20	FB	,, 3928 ; ,	vii.	γ xvi.	FB	110	2.2	21	11
2823	1910:238	12 44	1 51 E.	6, 3, 20	FB	Sigma 3653 ; ,	vii.	γ xvi.	FB	258	6.2	21	$\frac{1}{2}$
1521	1900:214	12 52	1 58 E.	6, 3, 60	FB	Rocket 2827 ; E.	vi.	α vi.	M	117	3.1	19	1

No. of Plate.	Year and Fraction.	R.A. of Centre.	Hour Angle.	Exposures.	Observers.	Plate and Developer. (E. = Eikonogen.) (H. = Hydrokinone.) (MH. = Metol + Hydrok.) (PS. = Pyrog. + Soda.)	Réseau.	Instrument and Scale.	Measurer.	No. of Stars.	Ratio to B.D.	No. in A.G.C.	Interval between Exposure and Measurement.
		h m	h m	m m s									Months.
396	1893'342	13 0	0 2 W.	6, 3, 20	FB	Mawson ; H.	ii.	α ii., β vii.	C&V	85	1'9	30	47
2801	1909'967	, ,	0 34 W.	6, 3, —	FB	Monarch 3982 ; PS, MH.	vii.	γ xvi.	P	217	4'9	30	7
387	1893'340	13 8	0 7 W.	6, 3, 20	FB	Mawson ; H.	ii.	β vii.	C	71	2'1	17	48
2824	1910'238	, ,	1 51 E.	6, 3, 20	FB	Sigma 3653 ; PS.	vii.	γ xvi.	P	258	7'6	17	6
397	1893'342	13 16	0 12 W.	6, 3, 20	FB	Mawson ; H.	ii.	β vii.	C	73	1'9	20	49
2825	1910'238	, ,	1 41 E.	6, 3, 20	FB	Sigma 3653 ; MH, PS.	vii.	γ xvi.	P	245	6'3	20	6
402	1893'348	13 24	0 2 E.	6, 3, 20	FB	Mawson ; H.	ii.	β vii.	C	50	1'6	21	49
2826	1910'238	, ,	1 25 E.	6, 3, 20	FB	Sigma 3653 ; MH, PS.	vii.	γ xvi.	P	248	7'7	21	5
403	1893'348	13 32	0 10 W.	6, 3, 20	FB	Mawson ; H.	ii.	α vi.	M	75	1'8	16	50
2831	1910'238	, ,	0 5 W.	6 $\frac{1}{2}$, 3, 20	FB	Sigma 3653 ; MH, PS.	vii.	γ xvi.	P	415	10'1	16	7
388	1893'340	13 40	0 2 E.	6, 3, 20	FB	Mawson ; H.	ii.	α vi.	M	97	2'5	21	50
2828	1910'238	, ,	1 3 E.	6, 3, 20	FB	Sigma 3653 ; MH, PS.	vii.	γ xvi.	P	322	8'3	21	7
398	1893'342	13 48	0 4 W.	6, 3, 20	FB	Mawson ; H.	ii.	α vi.	M	86	2'0	31	50
2829	1910'238	, ,	1 11 E.	6, 3, 20	FB	Sigma 3653 ; MH, PS.	vii.	γ xvi.	P	375	8'9	31	7
389	1893'340	13 56	0 1 W.	6, 3, 20	FB	Mawson ; H.	ii.	α vi.	M	80	2'0	22	50
2830	1910'238	, ,	0 38 E.	6, 4, 20	FB	Sigma 3653 ; MH, PS.	vii.	γ xvi.	P	321	8'0	22	7
2733	1909'142	14 4	2 28 E.	6, 3, 20	FB	Monarch 3750 ; PS, MH.	vii.	β i, xiii.	TM	118	2'9	19	11
1546	1900'298	14 12	0 17 E.	6, 3 $\frac{1}{2}$, 60	FB	Rocket 2827 ; E.	vi.	α vi.	EG	163	3'5	27	$\frac{1}{2}$
2832	1910'238	14 20	0 22 E.	6, 3, 20	FB	Sigma 3653 ; PS, MH.	vii.	γ xvi.	FB	321	5'8	22	$\frac{1}{2}$
2735	1909'142	14 28	2 0 E.	6, 3, 20	FB	Monarch 3750 ; MH, PS.	vii.	β i, xiii.	TM	151	3'3	26	11
2736	1909'142	14 36	1 45 E.	6, 3, 20	FB	, , , , ; , ,	vii.	γ xvi.	P	200	4'4	25	14
2737	1909'142	14 44	0 53 E.	6, 3, 20	FB	, , , , ; , ,	vii.	γ xvi.	FB	206	4'2	23	14
1545	1900'298	14 52	1 19 E.	6, 3, 60	FB	Rocket 2827 ; E.	vi.	α vi.	BG	213	4'5	17	$\frac{1}{2}$
2738	1909'142	15 0	0 52 E.	6, 3, 20	FB	Monarch 3750 ; MH, PS.	vii.	γ xvi.	FB	240	5'3	20	14
2739	1909'142	15 8	0 38 E.	6, 3, 20	FB	, , , , ; , ,	vii.	γ xvi.	FB	237	5'6	19	14
2740	1909'142	15 16	0 26 E.	6, 3 $\frac{1}{2}$, 20	FB	, , , , ; , ,	vii.	γ xvi.	FB	229	5'7	29	14
426	1893'444	15 24	0 45 W.	6, 3, 20	FB	Mawson ; H.	ii.	α vi.	H	127	3'1	27	48
2741	1909'142	15 32	0 17 E.	6, 3, 20	FB	Monarch 3750 ; MH, PS.	vii.	γ xvi.	P	245	5'1	26	14
2742	1909'142	15 40	0 5 E.	6, 3, 20	FB	, , , , ; , ,	vii.	γ xvi.	P	227	4'2	26	14
1547	1900'298	15 48	1 35 E.	6, 3, 60	FB	Rocket 2827 ; E.	vi.	α vi.	M	218	3'9	23	$\frac{1}{2}$
431	1893'455	15 56	0 38 W.	6, 3, 20	FB	Mawson ; H.	ii.	δ ix.	C	146	2'5	33	60
2743	1909'142	16 4	0 7 E.	4, 3, 20	FB	Monarch 3750 ; PS, MH.	vii.	λ viii.	GH	283	4'7	26	14
1548	1900'298	16 12	1 38 E.	6, 3, 60	FB	Rocket 2827 ; E.	vi.	α vi.	EG	341	5'4	21	$\frac{1}{2}$
428	1893'444	16 20	0 34 W.	6, 3, 20	FB	Mawson ; H.	ii.	β vii.	F	170	3'1	33	48
2788	1909'594	16 28	1 56 W.	6, 3, 20	FB	Monarch 3982 ; PS.	vii.	γ xvi.	FB	178	3'8	30	8
434	1893'493	16 36	0 31 W.	6, 3, 20	FB	Mawson ; H.	ii.	β vii.	F	147	2'6	22	50
1421	1899'405	16 44	0 33 W.	6, 3, 60	FB	Rocket 2597 ; E.	vi.	γ viii.	TM	167	2'9	31	3
2833	1910'345	16 52	0 6 E.	6, 3, 20	FB	Sigma 3653 ; MH, PS.	vii.	γ xvi.	FB	544	8'0	36	1
2834	1910'345	17 0	0 4 W.	6, 3, 20	FB	, , , , ; , ,	vii.	γ xvi.	FB	514	7'8	33	1
2835	1910'345	17 8	0 24 W.	6, 3, 20	FB	, , , , ; , ,	vii.	γ xvi.	P	702	10'9	31	1
2838	1910'348	17 16	0 48 E.	6 $\frac{1}{2}$, 3, 20	FB	, , , , ; , ,	vii.	γ xvi.	P	627	8'1	36	1
1448	1899'545	17 24	0 14 W.	6, 3, 60	C	Rocket 2597 ; E.	vi.	γ viii.	TM	313	4'8	38	2
1449	1899'545	17 32	0 26 W.	6 $\frac{3}{4}$, 3, 60	C	, , , , ; , ,	vi.	γ viii.	TM	322	4'4	48	2
1450	1899'545	17 40	0 41 W.	6 $\frac{3}{4}$, 3, 60	C	, , , , ; , ,	vi.	γ viii.	TM	354	4'6	43	2
2840	1910'348	17 48	0 45 E.	7, 3, 20	FB	Sigma 3653 ; PS, MH.	vii.	γ xvi.	FB	895	8'8	44	2
1424	1899'405	17 56	0 24 W.	6, 3, 60	FB	Rocket 2597 ; E.	vi.	γ viii.	TM	295	3'1	54	4
1198	1898'608	18 4	0 7 W.	6, 3, 60	C	, , 2152 ; H.	vi.	γ xvi.	FB	870	10'1	47	143
2841	1910'348	18 12	0 52 E.	5 $\frac{1}{2}$, 3, 20	FB	Sigma 3653 ; PS, MH.	vii.	γ xvi.	P	780	8'8	43	1
2673	1908'747	18 20	2 13 W.	6 $\frac{1}{4}$, 3 $\frac{5}{8}$, 20	FB	Monarch 3394 ; PS.	vii.	δ i, xv.	HT	781	7'0	50	21
1199	1898'608	18 28	0 7 W.	6, 3, 60	C	Rocket 2152 ; H.	vi.	γ xvi.	FB	934	9'2	47	143
2674	1908'747	18 36	2 18 W.	6, 3, 20	FB	Monarch 3394 ; PS.	vii.	δ i, xv.	ES	1097	12'1	45	7
1200	1898'608	18 44	0 10 W.	6, 3, 60	C	Rocket 2152 ; H.	vi.	β i, xiii.	FB	880	9'1	56	144
2365	1904'660	18 52	0 28 W.	6, 3, 20	S	, , 6758 ; E.	vi.	β x.	BG	417	3'7	50	1

No. of Plate.	Year and Fraction.	R.A. of Centre.		Hour Angle.	Exposures.	Observers.	Plate and Developer. (E = Eikonogen.) (H. = Hydrokinone.) (MH. = Metol. + Hydrol.) (PS. = Pyrog. + Soda.)		Réseau.	Instrument and Scale.	Measurer.	No. of Stars.	Ratio to B.D.	No. in A.G.C.	Interval between Exposure and Measure- ment.	
		h	m	h	m	s									Months.	
1203	1898.701	19	0	0	53	W.	6, 3, 60	C	Rocket 2152 ;	H.	vi. δ ix.	C	307	2.8	58	1
2366	1904.660	19	8	0	35	W.	6, 3, 18	S	,, 6758 ;	E.	vi. β x.	S	502	4.6	63	1
2374	1904.717	19	16	0	51	W.	6, 3, 20	S	,, , , ;	,,	vi. β_1 xiii.	TM	757	7.0	47	51
2375	1904.717	19	24	1	2	W.	6, 3, 20	FB	,, , , ;	,,	vi. β_1 xiii.	TM	849	7.9	40	52
2288	1903.745	19	32	0	31	W.	6, 3, 20	FB	,, 5373 ;	,,	vi. β x.	EG	933	6.7	71	11
2676	1908.747	19	40	1	57	W.	6, 3, 20	FB	Monarch 3394 ;	PS.	vii. γ xvi.	FB	754	5.9	64	21
1201	1898.608	19	48	0	35	E.	6, 3, 60	C	Rocket 2152 ;	H.	vi. β_1 xiii.	FB	826	5.8	59	144
1202	1898.608	19	56	0	22	E.	6, 3, 60	C	,, , , ;	,,	vi. β_1 xiii.	FB	913	7.1	64	144
2376	1904.717	20	4	0	40	W.	6, 3, 20	S	,, 6758 ;	E.	vi. β_1 xiii.	TM	860	6.1	66	52
2289	1903.745	20	12	1	1	W.	6, 3, 20	FB	,, 5373 ;	,,	vi. β x.	S	1183	9.1	59	5
2287	1903.731	20	20	1	0	W.	6, 3, 20	FB	,, , , ;	,,	vi. γ viii.	S	1010	8.4	69	7
442	1893.611	20	28	0	21	E.	6, 3, 20	FB	Mawson ;	H.	ii. α ii, β vii.	F&V	818	7.6	54	45
441	1893.591	20	36	0	21	E.	6, 3, 20	FB	,, ;	,,	ii. α ii, γ viii.	H&V	579	4.8	74	45
445	1893.619	20	44	0	38	E.	6, 3, 20	FB	,, ;	,,	ii. α ii, β vii.	F&B	513	4.6	57	45
443	1893.611	20	52	0	5	E.	6, 3, 20	FB	,, ;	,,	ii. α ii, γ viii.	H&V	550	7.3	36	45
2380	1904.723	21	0	0	48	E.	6, 3, 20	FB	Rocket 6758 ;	E.	vi. α xii.	S	1060	12.6	46	3
465	1893.695	21	8	0	13	W.	6, 3, 20	FB	Mawson ;	H.	ii. α ii, β vii.	F&V	505	6.3	35	44
466	1893.695	21	16	0	39	W.	6, 3, 20	FB	,, ;	,,	ii. α ii, γ viii.	H&V	291	3.7	55	44
460	1893.693	21	24	0	29	E.	6, 3, 20	FB	,, ;	,,	ii. α ii, γ viii.	H&V	334	4.0	54	44
471	1893.723	21	32	0	7	E.	6, 3, 20	FB	,, ;	,,	ii. α ii, α vi.	M&V	430	4.8	44	44
2290	1903.745	21	40	0	5	E.	6, 3, 20	FB	Rocket 5373 ;	E.	vi. β x.	S	681	7.6	50	11
2291	1903.769	21	48	0	12	E.	6, 3, 20	FB	,, ;	,,	vi. β x.	BG	324	4.2	36	11
1210	1898.734	21	56	0	49	E.	6, 3, 60	C	,, 2152 ;	,,	vi. $\left\{ \begin{array}{l} \delta \text{ ix.} \\ \beta_1 \text{ xiii.} \end{array} \right\}$	C&FB	746	10.4	31	143
2384	1904.723	22	4	0	33	E.	6, 3, 20	S	,, 6758 ;	,,	vi. β x.	S	601	8.5	28	2
2385	1904.723	22	12	0	25	E.	6, 3, 20	FB	,, , , ;	,,	vi. β x.	EG	897	10.8	30	2
2386	1904.723	22	20	0	16	E.	6, 3, 19	S	,, , , ;	,,	vi. β x.	S	602	8.5	19	6
2387	1904.723	22	28	0	7	E.	6, 3, 20	FB	,, , , ;	,,	vi. β x.	S	690	9.1	29	2
870	1895.745	22	36	0	38	E.	6, 3, 20	FB	,, 1162 ;	,,	iii. α vi.	H	390	5.8	25	33
246	1892.915	22	44	1	4	W.	7, 3, 20	FB	Mawson ;	H.	ii. α ii, β vii.	C&V	438	5.5	24	54
1232	1898.753	22	52	0	9	W.	6, 3, 60	C	Rocket 2152 ;	E.	vi. α vi.	M	297	4.4	24	4
871	1895.745	23	0	0	16	W.	6, 3, 20	FB	Rocket 1162 ;	,,	iii. α ii, β vii.	C&V	318	5.0	21	19
2292	1903.769	23	8	0	12	W.	6, 3, 20	FB	,, 5373 ;	,,	vi. β x.	EG	397	6.2	39	13
1241	1898.830	23	16	0	28	E.	6, 3, 60	C	,, 2152 ;	,,	vi. δ ix.	BG	367	5.3	38	6
2293	1903.769	23	24	0	16	W.	6, 3, 30	FB	,, 5373 ;	,,	vi. β x.	BG	334	5.4	35	11
237	1892.904	23	32	0	22	W.	6, 3, 30	J	Mawson ;	H.	ii. α ii, β vii.	C&V	229	3.6	33	53
872	1895.745	23	40	0	4	E.	6, 3, 20	FB	Rocket 1162 ;	E.	iii. α ii, β vii.	C&V	316	4.9	35	19
247	1892.915	23	48	0	29	W.	6, 3, 20	FB	Mawson ;	H.	ii. α ii, β vii.	C&V	276	4.1	33	54
1242	1898.830	23	56	0	42	E.	6, 3, 60	C	Rocket 2152 ;	E.	vi. α vi.	M	240	3.9	23	3

Total number of images measured, excluding the old plates in R.A. 13 hours, is 76,409.

IV.—MEASUREMENT OF THE PHOTOGRAPHS.

(i.) *Description of the Micrometer.*

The general method of measurement is the same as at Greenwich, except that it was not found possible to obtain a "duplex" micrometer, and hence each plate was measured quite independently, and not in conjunction with overlapping plates.

The plates are placed in a frame movable in the direction of the y co-ordinate, and a microscope carried on a horizontal slide moves in the x co-ordinate.

For the measurement of the photographs, a glass diaphragm with two scales at right angles, divided so that one division corresponds to 0.01 of a *réseau* interval, or 3", is placed in the focal plane of the viewing microscope. The star's image is placed accurately at the intersection of the two scales, and the position of the *réseau* lines relatively to it is read off on the scales by estimation to 0.1 of a division, or 0.001 of a *réseau* interval, or 0".3 in the sky. Reference may be made to Plate II. in Vol. I. of the Greenwich measures for the general appearance of the scale in the field of view. Readings are made where the scales cut the four *réseau* lines enclosing the star, and for perfect adjustment the two pairs of readings should be identical. Owing to errors of adjustment and to curvature of the plates, the pairs differ by small quantities which may amount to 0.003 (or 0".9), but should never exceed this. The mean is taken mentally, giving preference to the reading at the *réseau* line nearer the star, and the result is written down to three decimal places. (See *Mon. Not. R.A.S.*, lv p. 105.)

(ii.) *The Arrangement of the Measures.*

The arrangement of the plates for the Astrographic Catalogue is such that the sky is divided into zones in declination 2° wide. The order in which the measures on each plate are printed is the same as that in which they were originally made.

The centres of the plates in the present zone are near the corners of the plates in the zones above and below.

In order to make sure of taking the whole of the sky, the plates in each zone overlap one another to the extent of 10^{mm}. or more each way within the boundary of the *réseau*, so that, while every star appears on at least two plates, some may occur on three, four, or five plates. But there is a rough compensation in this arrangement, for if a star occurs on five plates it is only really well defined on one, where its image is nearly central; on the other four its image will be near the corner in every case, and therefore elongated.

The plates are measured in two positions, the plate being turned through 180° for the second set of measures. All the measures on a plate are made by the same

person except that the *revision* of TM's measures (in cases of wrong entries, large discordances, etc.) was done at Oxford. The differences $R-D$ for cases which do not call for remeasurement are collected for each plate under the headings $-.005$, $-.004$, $-.003$, . . . $.000$, $+.001$, . . . $+.005$, and give an indication of the personal error of bisection, and of the distribution of errors. For all later plates the limits adopted have been $.004$ at each end.

When there is a strongly marked personality, the limits between which differences are accepted have sometimes been modified. Thus, if the mean difference $R-D$ is $-.002$, the limits $-.007$ to $+.003$ replace $-.005$ to $+.005$.

For printing, the mean of D and R has been taken, to three figures only. To minimise corrections of the proof, no correction has been made when the terminal figure has, by accident, not been "raised."

V.—DETERMINATION OF PHOTOGRAPHIC MAGNITUDES.

With the rectangular co-ordinates of each star is given the diameter (d) of the image obtained with the 6^m exposure, the mean of the two determinations D and R being taken. The unit is 0.001 of a *réseau* interval, or $0''.3$. Thus 12 denotes $3''.6$, and 61 denotes $18''.3$.

The general formula adopted provisionally is

$$\text{mag.} = a - b \sqrt{d},$$

and a discussion of the reasons for adopting it will be found in *Mon. Not. R.A.S.*, vol. lxx pp. 755–775. The value of b for the measures in the present volume is taken as 1.02 for all plates with plate-numbers less than 800, and 1.25 for all plates with numbers from 800–2841, while the constant a is determined for each plate from comparison of the magnitudes of the stars given in the Meridian Catalogues (marked with an asterisk after the Oxford No. on pp. 4–224) with the measured diameters.

A table for converting diameters into magnitudes will be found at pp. lvii–lxv.

VI.—MEASURES OF POSITION.

Personality of Measurers.

As already mentioned, the personality of the measurer is determined for each plate.

For any individual plate, the measurer and instrument can be found from columns 10 and 9 in the table of details given on pp. xviii to xxi, and the date of measurement can also be inferred from columns 2 and 14 of the table; so that a suitable value for the personality can be deduced if for any purpose it is desired, from the following table, which includes the 180 plates adopted for this zone as well as those superseded:—

Determinations of Personality relevant to Measures in Zone +25°.

The mean excess of the R measure (reversed) over the D measure is tabulated in units of 0".03. The "error of bisection," is thus one-half the quantity tabulated.

Measurer.	Instrument.	Scale.	Year.	No. of Plates.	Mean R—D.	
					<i>x.</i>	<i>y.</i>
HT	δ_1	xv.	1910	1	R. Int. + '0011	R. Int. + '0002
FB	β_1	xiii.	1910	3	+ '0002	+ '0013
	γ	viii.	1909	2	+ '0001	+ '0007
	γ	xvi.	1910	18	+ '0004	+ '0012
P	γ_1	xvi.	1910	17	+ '0001	+ '0009
F	β	vii.	1897	2	'0000	+ '0009
H	a	vi.	1897	2	+ '0007	— '0002
	a	vi.	1898	1	+ '0001	+ '0017
C	β	vii.	1897	3	'0000	+ '0006
	δ	ix.	1898	3	+ '0011	'0000
	δ	ix.	1899	4	+ '0003	— '0001
TM	β_1	xiii.	1908	13	+ '0001	+ '0001
	β_1	xiii.	1909	19	— '0002	— '0003
	β_1	xiii.	1910	12	— '0003	— '0007
	γ	viii.	1897	2	— '0013	— '0006
	γ	viii.	1899	21	— '0012	— '0003
	μ	iv.	1897	8	— '0001	— '0001
M	a	vi.	1897	5	— '0009	+ '0020
	a	vi.	1899	8	— '0020	+ '0012
	a	vi.	1900	3	— '0009	+ '0018
BG	a	vi.	1900	2	— '0008	+ '0005
	β	x.	1904	3	— '0008	+ '0009
	δ	ix.	1899	1	+ '0009	— '0006
EB	β	vii.	1900	1	— '0011	+ '0015
EG	a	vi.	1900	3	— '0003	+ '0011
	β	x.	1904	3	— '0005	— '0007
S	a	xii.	1904	1	— '0017	— '0007
	β	x.	1904	6	— '0018	— '0002
	β	x.	1905	2	— '0017	— '0007
	γ	viii.	1904	1	— '0015	— '0008
GH	π	xvii.	1909	1	— '0006	+ '0011
	λ	viii.	1910	1	— '0003	+ '0004
ES	δ_1	xv.	1909	1	+ '0008	— '0006
Various	a, β, γ	ii, vi, vii, viii.	1895–1897	15	— '0001	+ '0003

In explanation of the entry "Various," it may be remarked that at the beginning of the work arrangements for one observer to measure the whole plate had not yet been

made; nor had the advantages of reversing the plate been realised. When, later, the measurement of the plate a second time became a matter of course, this re-measurement was carried out by a single person; and it was considered that the previous measures, although made by several persons (as indicated by the letter V, see Vol. I. and p. xii of this volume for others not mentioned here), afforded a sufficient check on the second and more uniform set.

The particulars of these cases in the present volume are as follows:—

No. of Plate.	Centre R.A.	First Measures.		Second Measures.	
		Instrument and Scale.	Measurer.	Instrument and Scale.	Measurer.
498	h m 5. 48	α ii.	FB; B	α vi.	M
396	13. 0	α ii.	HT: FB; JF	β vii.	C
442	20. 28	α ii.	B; FB; JF	β vii.	F
441	20. 36	α ii.	B; FB; KT	γ viii.	H
445	20. 44	α ii.	B	β vii.	F
443	20. 52	α ii.	B; FB	γ viii.	H
465	21. 8	α ii.	B; FB	β vii.	F
466	21. 16	α ii.	F; FB	γ viii.	H
460	21. 24	α ii.	FB; B	γ viii.	H
471	21. 32	α ii.	B; F; HT; FB	α vi.	M
1210	21. 56	δ ix.	C	β , xiii.	FB
246	22. 44	α ii.	FB; B; HT	β vii.	C
871	23. 0	α ii.	FB; B; HT; KT	β vii.	C
237	23. 32	α ii.	B; FB	β vii.	C
872	23. 40	α ii.	B; KT; FB	β vii.	C
247	23. 48	α ii.	FB; B	β vii.	C

The 180 plates used in the present volume, in addition to the extra 8 plates in 13^h, were measured by the following persons:—

H. H. Turner	.	HT,	1 plates	B. G. C. Gray	.	BG,	6 plates
F. A. Bellamy	.	FB,	23 "	E. F. B. Bellamy	.	EB,	1 "
H. C. Plummer	.	P,	17 "	E. A. Gray	.	EG,	6 "
H. A. Freeborn	.	F,	2 "	F. H. Scragg	.	S,	10 "
R. J. Horsley	.	H,	3 "	G. H. Hamilton	.	GH,	2 "
F. C. H. Carpenter	.	C,	9 "	E. D. C. Stokes	.	ES,	1 "
T. J. Moore	.	TM,	75 "	Various	.	V,	16 "
H. F. Mullis	.	M,	16 "				

Probable Errors of Measures.

See Introduction to Vol. I., p. xxx.

Errors of Réseaux.

The errors of the *réseaux* have been treated as small accidental errors, and not applied. For further particulars, see Introduction to Vol. I.

*Errors of Division of the Glass Diaphragms of the Measuring Micrometer,
and Optical Distortion of the Field.*

Beyond making sure at the outset that the errors of division of the diaphragms were small enough to be neglected, little has been done to investigate them. They belong to a class of errors which may be neglected for the purposes of the general survey represented by the Astrographic Catalogue, though for such work as determinations of parallax it is no doubt necessary to take them into account. Every star occurs on at least two plates: the division errors of the *réseau* are different in the two cases, and there is accordingly a general tendency to compensation: the division errors of the eye-piece scale are also different, and are also different in the two positions of the plate in which it is measured. Hence it was considered that they might safely be neglected.

VII.—PLATE CONSTANTS.

The plate constants were determined by the method and formulæ given in *Mon. Not. R.A.S.*, liv. p. 11 (Nov. 1893). The geometrical formulæ there given were, however, modified in practice as approximate formulæ, more convenient for the formation of tables. See the next section, pp. xxix-xxxiii.

The R.A.s and Decs. of the reference stars were taken from the Catalogues of the *Astronomische Gesellschaft*, brought up from 1875·0 to 1900·0, with the precessions and secular variations given in those Catalogues. For the plates in the present volume with centres at $+25^\circ$, and covering declinations $+24^\circ$ to $+26^\circ$ approximately, the stars are contained in the Cambridge and Berlin B Catalogues.

The provisional constants were computed as follows: having computed from the R.A.s and Decs. of the stars given in the Meridian Catalogues, brought up to 1900·0, the standard co-ordinates, as given on pp. 225-265 of this volume, an "approximate solution" was first formed for each plate to No. 2200, by consideration of a few stars only; plates after that number were compared directly with the computed ξ' and η' . For the first plate of the series (centre $0^h 4^m + 25^\circ$), it was readily seen that if the expression

$$\begin{aligned}\Delta\xi' &= +\cdot008 \xi' + \cdot002 \eta' - \cdot515 \\ \Delta\eta' &= -\cdot003 \xi' + \cdot008 \eta' + \cdot010\end{aligned}$$

were applied to the calculated standard co-ordinates, we should get results closely comparable with the measures. The following notation has been adopted in the work:—

ξ, η are the standard co-ordinates referred to the *plate-centre* as origin, and related to R.A. and Dec. by the formulæ

$$\begin{aligned}\xi &= k \tan (\alpha - A) \sec (\theta - D) \cos \theta \\ \eta &= k \tan (\theta - D),\end{aligned}$$

where

$$\tan \theta = \sec (\alpha - A) \tan \delta,$$

and

$$k = 687.549 \text{ (reciprocal of circ. measure of } 5'),$$

$$\xi' = \xi + 13, \quad \eta' = \eta + 13,$$

so that (ξ', η') are referred to a corner of the *réseau* and are always positive.

$$x' = \xi' + \Delta\xi', \quad y' = \eta' + \Delta\eta',$$

where $\Delta\xi'$ and $\Delta\eta'$ represent the above approximate solution. The actual measures are represented by x and y .

The differences $x - x'$ and $y - y'$ are then small, and linear expressions

$$x - x' = ax + by + c, \quad y - y' = dx + ey + f$$

are easily found to represent them. For an example of the process in detail, see the Introduction to Vol. I. The "approximate solution" is combined with this accurate solution to give

$$\xi' = x - Ax - By - C, \quad \eta' = y - Dx - Ey - F.$$

Finally, to get the standard co-ordinates (ξ, η) , from the measures we have—

$$\xi = x - 13 - Ax - By - C, \quad \eta = y - 13 - Dx - Ey - F,$$

where A, B, C, D, E, F are the provisional constants as printed.

Proper Motions are not available as yet for the great majority of the stars observed at Cambridge, and have thus not generally been applied. But in certain cases where the values of $x - x'$ and $y - y'$ were seen (by inspection) to be anomalous, the star was either omitted from the equations altogether (as in a number of cases of single observations in the Cambridge Catalogue), or an approximate proper motion was specially calculated and applied. It does not seem necessary to give details, since it became clear very early in the work that the plate constants which could be deduced at present would in any case be approximate only, and will be sensibly modified on revision. Discussion of them is reserved for the last volume.

As regards *differential refraction*, accurate formulæ are given for its effect in *Mon. Not. R.A.S.*, lvii. p. 135,* viz. :—

$$\Delta x = (x - X)t, \quad \Delta y = (y - Y)t,$$

where (X, Y) are the co-ordinates of the zenith, supposed projected on the plate, and

$$t(1 + xX + yY) = -\beta_0(1 + x^2 + y^2),$$

β_0 being the coefficient of refraction and x, y, X, Y being expressed in terms of the focal length of the telescope as unit. When $x = 0, y = 0, t = -\beta_0$, and the refraction at the plate centre is thus $\Delta x = \beta_0 X, \Delta y = \beta_0 Y$. Omitting this as a constant affecting the whole plate, the differential refraction is

$$\Delta x = tx - X(t + \beta_0), \quad \Delta y = ty - Y(t + \beta_0).$$

* There are, however, some unfortunate mistakes in this paper, of which a list is given on p. iv of the Introduction to Vol. I.

For the plates in the present volume it is sufficient to retain the first order of x and y , and thus—

$$t = -\beta_0(1 - xX - yY),$$

$$\Delta x = -\beta_0(1 + X^2)x - \beta_0XYy, \quad \Delta y = -\beta_0XYx - \beta_0(1 + Y^2)y.$$

These are the *effects* of refraction. To find *corrections* to x and y we must reverse the signs. The proper sign is easily determined if we remember that refraction *contracts* the field.

Zone + 25° Correction for Refraction in units of the sixth decimal place.

Hour Angle.	$\beta_0(1+X^2)$	β_0XY	$\beta_0(1+Y^2)$	Hour Angle.	$\beta_0(1+X^2)$	β_0XY	$\beta_0(1+Y^2)$
h m				h m			
0 0	278	0	349	2 0	317	62	376
10	278	4	349	10	325	70	382
20	279	9	349	20	334	78	388
30	280	13	350	30	343	88	395
40	282	17	351	40	353	98	403
50	284	22	353	50	365	108	413
1 0	287	27	355	3 0	378	121	423
10	291	32	357	10	392	134	435
20	295	37	360	20	408	149	449
30	300	43	363	30	425	166	465
40	305	49	367	40	445	186	484
50	311	56	371	50	467	207	505
2 0	317	62	376	4 0	491	231	528

Thus the corrections at hour angle $4^h 0^m$ are

$$\Delta x = +\cdot000491x \mp \cdot000231y,$$

$$\Delta y = \mp \cdot000231x + \cdot000528y,$$

taking the upper sign for plates taken in east hour angles.

Differential aberration gives rise to the *corrections**

$$\Delta x = + \kappa \cos CW \cdot x,$$

$$\Delta y = + \kappa \cos CW \cdot y,$$

where C is the centre of the plate and W a point in the ecliptic 90° behind the Sun; and the coefficient may be written, as in the Greenwich Introduction, Vol. I. p. xlv:—

$$\kappa \cos CW = \cdot000100 \{ -\cdot40 \sin D \cos \odot - \cdot96 \cos D \sin (A - \odot) \},$$

where \odot is the Sun's longitude; omitting a term $\cdot000004 \cos D \sin (A + \odot)$.

* Some confusion has arisen between *effect* and *correction* in the case both of differential refraction and aberration. On pp. xlv and xlv of the Greenwich Introduction the term "corrections" is in both cases used in the text where "effects" should be used. But the tables given are rightly labelled.

For the plates in the present volume $D = +25^\circ$, and this becomes

$$-000017 \cos \odot - 000087 \sin (A - \odot).$$

It will make very little difference if we substitute the Sun's R.A. for his longitude; and then for a plate taken on the meridian at midnight $A - \odot = 180^\circ$, and the second term vanishes. For plates taken on the meridian at other times, the second term has the following values, in units of the sixth decimal place:—

6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Midnt.	13 ^h	14 ^h	15 ^h	16 ^h	17 ^h	18 ^h
-87	-84	-75	-62	-44	-22	0	+22	+44	+62	+75	+84	+87

The first term depends on the time of year, and has the following values at the *middle* of each month in units of 000001:—

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
-7	-14	-17	-15	-10	-2	+6	+13	+17	+17	+10	+2

Thus the measures made on a plate taken on the meridian at 8^h in March require the corrections $-000092x$ and $-000092y$ for aberration.

VIII.—DETERMINATION OF A STAR'S STANDARD CO-ORDINATES FROM ITS RIGHT ASCENSION AND DECLINATION: AND OF R.A. AND DEC. FROM ITS MEASURED CO-ORDINATES.

From the provisional constants given at the head of each plate, the standard co-ordinates of a star are obtained from the measures by the formulæ

$$\begin{aligned}\xi &= x - 13 - Ax - By - C, \\ \eta &= y - 13 - Dx - Ey - F.\end{aligned}$$

The name "standard co-ordinates" was proposed (*Mon. Not. R.A.S.*, vol. liv. p. 13) for the co-ordinates which a star would have on an ideal plate fulfilling the following conditions:—

- (i.) The plate truly centred and oriented for 1900.0.
- (ii.) No refraction and aberration.
- (iii.) A suitable unit of length adopted.

The co-ordinates ξ and η are derived from R.A. and Dec. by the purely geometrical formulæ

$$\begin{aligned}\xi &= k \tan (\alpha - A) \sec (\theta - D) \cos \theta, \\ \eta &= k \tan (\theta - D),\end{aligned}$$

where

$$\tan \theta = \sec (\alpha - A) \tan \delta \quad \text{and} \quad k = 687.549.$$

(A, D) being the R.A. and Dec. of the plate centre, and (α, δ) those of the star.

for $\eta = 0.0, 0.1, 0.2, 0.3$, etc., etc., can be read directly from the tables without interpolation. Now, representing the corresponding value of D by D_0 , which is very nearly the same as D , we have

$$\sin D(k \cot D - \eta) = \sin D_0 \frac{k \cot D_0 - \eta}{k \cot D_0 - \eta} (k \cot D_0 - \eta),$$

in the fractional term of which we may give η its mean value zero to a very close approximation; and we thus obtain the form No. (2). Having formed in Table III. the value of

$$\text{const} + \log \{ \mu \cos D \cdot \tan D_0 \cdot (k \cot D_0 - \eta) \}$$

for multiples of 0.1000, the correction for the fractional part of η beyond the first place is given in Table IV. The constant is added to Table III., so that Table IV. may always be positive.

Thus ξ is found from the formula

$$\begin{aligned} \log \xi &= \log X \\ &+ \text{Table III.} \quad (\text{Arg. } \eta \text{ to } 0.1) \\ &+ \text{Table IV.} \quad (\text{Arg. remainder of } \eta) \\ &+ \text{Table V.} \quad (\text{Arg. } X). \end{aligned}$$

(b) *Without logarithms.*—The above computation is quite simple, and it may seem unnecessary to go further. But sometimes logarithm tables are not at hand; or for other reasons it may be convenient to be able to form ξ from X without reference to any books beyond the present volume. Accordingly tables have been arranged by means of which ξ may be found from X by simple processes of multiplication and interpolation.

When X is constant we have

$$\xi = M - N\eta,$$

so that the differences in η are constant. Hence, if for any given value of X we find ξ for two values of η —say $\eta = +13.0$ and $\eta = -13.0$ —then by uniform graduation we can fill in values of ξ for all other values of η , to any desired limit of subdivision.

Hence we can easily form tables giving ξ in terms of X and η . But it is more convenient to use X and Y , and the required transformation is easily effected, and has been carried out. [In the Introductions to Volumes I., II., III., IV., V. and VI. it was not stated that this transformation had been made, and the impression might be gathered that the printed tables applied really to X and η . They are, however, correct as they stand.]

When η is constant we have

$$\xi = MX(1 + \frac{1}{2}\mu^2 X^2),$$

so that the differences are not quite uniform. But if we have values of X for every *réseau* interval, we can safely interpolate, as Tables IX.–XIII. will show.

In interpolating, however, it is necessary to be careful of the $X Y$ term, which is only eliminated by first obtaining values for ξ with a very nearly correct value of one of the factors. For this purpose it is easiest to choose Y . Hence the subdivision has been carried further for Y than for X .

As an example of both calculations, take star No. 288 on p. (4), R.A. $0^h 4^m + 25^\circ$, viz.,—

	R.A.	Dec.
Cambridge 14440	$23^h 59^m 18^s \cdot 42$	$+ 25^\circ 50' 2'' \cdot 3$ (1875.0)
	$0 \quad 0 \quad 35 \cdot 23$	$+ 25 \quad 58 \quad 23 \cdot 6$ (1900.0)

$$\therefore X = -204^s \cdot 77 / 20^s = -10 \cdot 2385, \quad Y = +3503'' \cdot 6 / 300'' = +11 \cdot 6787.$$

$Y = +11 \cdot 6787$	$\log X = 0 \cdot 010236$
Table I. = + 292	Table III. = 9.953786
Table II. = + 19	Table IV. = 27
$\eta = \text{Sum} = +11 \cdot 7098$	Table V. = 32
$\eta' = \eta + 13 = 24 \cdot 7098$	$\log \xi = \text{Sum} = 9 \cdot 964081$
	$\xi = -9 \cdot 2062$
	$\xi' = \xi + 13 = 3 \cdot 7938$

Without logarithms, the computation for ξ would stand thus: for $Y = +11 \cdot 6787$ we refer to Table XIII., which is headed from $Y = +11 \cdot 0$ to $Y = +13 \cdot 0$; and the precept is

$$\xi = X - \frac{1}{10}X \text{ — following table.}$$

Thus, since

	$X = -10 \cdot 2385$
	$\frac{1}{10}X = 1 \cdot 0239$
Table XIII. for $X = 10 \cdot 0$, $Y = +11 \cdot 679$	= 83
Add for the .24 of X	1
Total to be subtracted	= $1 \cdot 0323$
	$\xi = -9 \cdot 2062$

Small differences of .0001, or occasionally .0002, cannot be avoided unless we go to five decimal places.

To get R.A. and Dec. from the Measures.

First form the standard co-ordinates ξ and η from the formulæ—

$$\begin{aligned} \xi &= x - 13 - Ax - By - C, \\ \eta &= y - 13 - Dx - Ey - F. \end{aligned}$$

Then, *with logarithms*, to $\log \xi$ add

Table VI.	entering with argument ξ .
Table VII.	„ „ η to 0.1.
Table VIII.	„ „ η remainder.

The sum is $\log X$.

Since Tables III. and IV. are formed for argument η , we might have used them, but they would have to be *subtracted*; and Table V. could be adapted for argument ξ : but it is simpler to form new Tables VI., VII., and VIII., which are additive.

Having found X, we can now enter Table I. with X as argument, and place this quantity below η to be subtracted. By inspection we obtain a sufficiently close value of Y to enter Table II.

Without logarithms we can use Tables XIV. to XVIII.

As an example, take No. 288, the Oxford measure of the same star as used in the example on the previous page—

$x = 3.379$ $- Ax = - .0252$ $- By = - .675$ $- C = + .5093$ <hr style="width: 100%;"/> $\xi = + 3.7958$ $\xi = - 9.2042$	$y = 24.909$ $- Dx = + .0108$ $- Ey = - .1918$ $- F = - .0160$ <hr style="width: 100%;"/> $\eta' = 24.7120$ $\eta = + 11.7120$
--	---

With logarithms :—

$\log. \xi = 0.963986$ Table VI. = 38 Table VII. = 0.046084 Table VIII. = 34 <hr style="width: 100%;"/> $\log X = 1.010142$ $X = - 10.2363$ $= - 204^s.73$ R.A. = $0^h 0^m 35^s.27$	$\eta = + 11.7120$ Table I. = - 292 Table II. = - 19 <hr style="width: 100%;"/> $Y = + 11.6809$ $= + 0^\circ 58' 24''.3$ $D = + 25 \quad 0 \quad 0$ <hr style="width: 100%;"/> Dec. = $+ 25^\circ 58' 24''.3$
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The difference between this and the place on p. xxxii is the difference between the Oxford photographic position and the Cambridge A.G.C. place.

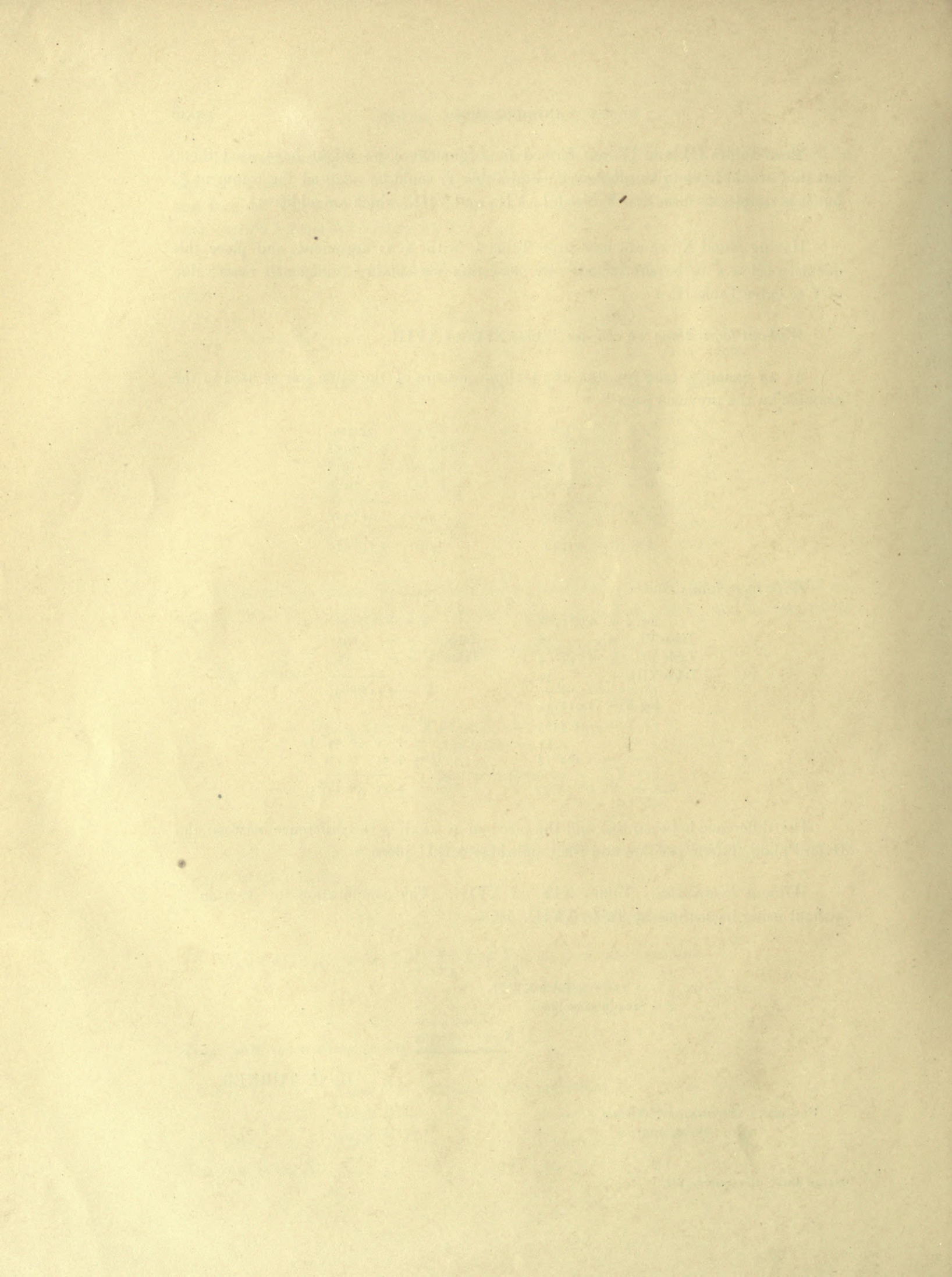
Without logarithms. Tables XIV. to XVIII. The computation for X, from ξ , without using logarithms by Table XVIII., is :—

$\xi = - 9.2042$	
$\frac{1}{8}\xi = 1.0227$	
$\xi = - 9.0, \eta = + 11.71$ in Table XVIII.	92
$\xi = .204$ in same line	2
	<hr style="width: 100%;"/>
$X = - 10.2363$	

H. H. TURNER.

UNIVERSITY OBSERVATORY, OXFORD.

1910 Dec. 6.



OXFORD ASTROGRAPHIC CATALOGUE

T A B L E S

FOR THE CONVERSION OF

R.A. AND DEC. INTO STANDARD CO-ORDINATES

AND OF

STANDARD CO-ORDINATES INTO R.A. AND DEC.

FOR PLATES WITH CENTRES IN

DEC. $+ 25^{\circ}$

BOTH WITH AND WITHOUT LOGARITHMS

TABLE II.—For $D = +25^\circ$.

$$\Delta_2 Y = \mu^2 \left\{ \frac{Y^3}{3} + \frac{1}{2} X^2 Y \cos 2D \right\} = \cdot 000000705 Y^3 + \cdot 000000681 X^2 Y.$$

Additive to Y with same sign as Y to get η . Additive to η with opposite sign to η to get Y.

$\begin{smallmatrix} Y \\ \text{or } \eta. \end{smallmatrix}$ \ X.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	10.5	11.	11.5	12.	12.5	13.	13.5	14.	14.5	15.	X. \ $\begin{smallmatrix} Y \\ \text{or } \eta. \end{smallmatrix}$
Unit = .0001 of a Reseau Interval.																						
R.I.																						R.I.
0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0.5
1.0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	1.0
1.5	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1.5
2.0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	2.0
2.5	0	0	0	0	0	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	4	2.5
3.0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	3.0
3.5	0	0	0	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	5	5	6	3.5
4.0	1	1	1	1	1	1	2	2	2	3	3	3	4	4	4	4	5	5	6	6	7	4.0
4.5	1	1	1	1	1	2	2	2	3	3	3	4	4	4	5	5	6	6	7	7	8	4.5
5.0	1	1	1	1	2	2	2	3	3	4	4	4	5	5	6	6	7	7	8	8	9	5.0
5.5	1	1	2	2	2	2	3	3	4	4	5	5	6	6	6	7	7	8	9	9	10	5.5
6.0	2	2	2	2	2	3	3	4	4	5	6	6	6	6	7	7	8	9	10	10	11	6.0
6.5	2	2	2	3	3	3	4	4	5	5	6	6	7	7	8	8	10	10	11	11	11	6.5
7.0	2	2	3	3	3	4	4	5	6	6	7	7	8	8	9	10	11	11	12	12	13	7.0
7.5	3	3	3	3	4	4	5	5	6	6	7	8	9	9	10	10	11	12	13	13	14	7.5
8.0	4	4	4	4	5	5	6	6	7	8	9	9	10	10	11	12	13	13	14	15	16	8.0
8.5	4	4	5	5	5	6	6	7	8	9	10	11	11	12	12	13	14	14	15	16	17	8.5
9.0	5	5	5	6	6	7	7	8	9	10	11	12	13	13	14	15	16	16	17	18	19	9.0
9.5	6	6	7	7	7	8	8	9	11	11	12	13	14	14	15	16	17	17	18	19	20	9.5
10.0	7	7	7	8	8	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	10.0
10.5	8	8	9	9	9	10	11	11	12	13	15	16	17	17	18	19	20	21	22	23	24	10.5
11.0	10	10	10	10	11	11	12	13	14	15	17	18	19	19	20	21	22	23	24	25	26	11.0
11.5	11	11	11	11	12	12	13	14	15	17	18	19	20	21	22	23	24	25	26	27	28	11.5
12.0	12	12	13	13	14	14	15	16	17	19	20	21	22	23	24	25	26	27	28	30	31	12.0
12.5	14	14	15	15	16	16	17	18	19	21	22	23	24	25	26	27	28	29	30	32	33	12.5
13.0	16	16	16	16	17	18	19	20	21	23	24	25	26	27	28	29	30	32	33	33	35	13.0

For $D = + 25^\circ$ and η Positive.

Add to log. X (with Table V.) to get log. ξ .

TABLE III.

Argument, η to 0.1. *Not to be interpolated.*

η		·0	·1	·2	·3	·4	·5	·6	·7	·8	·9
+12	9.95	3697	3667	3637	3608	3578	3548	3519	3489	3459	3430
+11	9.95	3994	3964	3934	3905	3875	3845	3816	3786	3756	3727
+10	9.95	4290	4261	4231	4201	4172	4142	4112	4083	4053	4023
+9	9.95	4587	4557	4528	4498	4468	4439	4409	4379	4350	4320
+8	9.95	4883	4853	4824	4794	4765	4735	4705	4676	4646	4616
+7	9.95	5179	5150	5120	5090	5061	5031	5002	4972	4942	4913
+6	9.95	5475	5445	5416	5386	5357	5327	5297	5268	5238	5209
+5	9.95	5771	5741	5711	5682	5652	5623	5593	5564	5534	5505
+4	9.95	6066	6036	6007	5977	5948	5918	5889	5859	5830	5800
+3	9.95	6361	6332	6302	6273	6243	6214	6184	6155	6125	6096
+2	9.95	6656	6627	6597	6568	6538	6509	6479	6450	6420	6391
+1	9.95	6951	6922	6892	6863	6833	6804	6774	6745	6715	6686
+0	9.95	7246	7216	7187	7157	7128	7098	7069	7040	7010	6981

TABLE IV.

Add for remainder of η .

	·000	·001	·002	·003	·004	·005	·006	·007	·008	·009
·09	3	3	3	3	2	2	2	1	1	1
·08	6	6	6	6	5	5	5	4	4	4
·07	9	9	9	8	8	8	8	7	7	7
·06	12	12	12	11	11	11	11	10	10	10
·05	15	15	15	14	14	14	13	13	13	13
·04	18	18	18	17	17	17	16	16	16	16
·03	21	21	21	20	20	20	19	19	19	18
·02	24	24	24	23	23	23	22	22	22	21
·01	27	27	26	26	26	26	25	25	25	24
·00	30	30	29	29	29	29	28	28	28	27

Unit = ·000001.

For $D = + 25^\circ$ and η Negative.

Add to log. X (with Table V.) to get log. ξ .

TABLE III.

Argument, η to 0.1. *Not to be interpolated.*

η		·0	·1	·2	·3	·4	·5	·6	·7	·8	·9
-0	9.95	7246	7275	7305	7334	7364	7393	7422	7452	7481	7511
-1	9.95	7540	7570	7599	7629	7658	7687	7717	7746	7776	7805
-2	9.95	7834	7864	7893	7923	7952	7981	8011	8040	8070	8099
-3	9.95	8128	8158	8187	8217	8246	8275	8305	8334	8364	8393
-4	9.95	8422	8452	8481	8510	8540	8569	8599	8628	8657	8687
-5	9.95	8716	8745	8775	8804	8833	8863	8892	8921	8951	8980
-6	9.95	9009	9039	9068	9097	9127	9156	9185	9215	9244	9273
-7	9.95	9303	9332	9361	9391	9420	9449	9479	9508	9537	9566
-8	9.95	9596	9625	9654	9684	9713	9742	9771	9801	9830	9859
-9	9.95	9889	9918	9947	9976						
-9	9.96					0006	0035	0064	0093	0123	0152
-10	9.96	0181	0210	0240	0269	0298	0327	0357	0386	0415	0444
-11	9.96	0474	0503	0532	0561	0591	0620	0649	0678	0707	0737
-12	9.96	0766	0795	0824	0854	0883	0912	0941	0970	1000	1029

TABLE IV.

Add for remainder of η .

	·000	·001	·002	·003	·004	·005	·006	·007	·008	·009
·00	30	30	31	31	31	31	32	32	32	33
·01	33	33	34	34	34	34	35	35	35	36
·02	36	36	36	37	37	37	38	38	38	39
·03	39	39	39	40	40	40	41	41	41	42
·04	42	42	42	43	43	43	44	44	44	44
·05	45	45	45	46	46	46	47	47	47	47
·06	48	48	48	49	49	49	49	50	50	50
·07	51	51	51	52	52	52	53	53	53	53
·08	54	54	54	54	55	55	55	56	56	56
·09	57	57	57	57	58	58	58	59	59	59

Unit = ·000001.

*All Zones.*For $D = +25^\circ$.

TABLE V.

$$\frac{1}{3} \mu^2 \log_{10} e \times X^2 = .000000306 X^2.$$

Add to log. X (with Tables III., IV.) to get log. ξ .

X.	0	1	2	3	4	5	6	7	8	9
1	0	0	0	1	1	1	1	1	1	1
2	1	1	1	2	2	2	2	2	2	3
3	3	3	3	3	4	4	4	4	4	5
4	5	5	5	6	6	6	6	7	7	7
5	8	8	8	9	9	9	10	10	10	11
6	11	11	12	12	13	13	13	14	14	15
7	15	15	16	16	17	17	18	18	19	19
8	20	20	21	21	22	22	23	23	24	24
9	25	25	26	26	27	28	28	29	29	30
10	31	31	32	32	33	34	34	35	36	36
11	37	38	38	39	40	40	41	42	43	43
12	44	45	46	46	47	48	49	49	50	51
13	52	53	53	54	55	56	57	58	58	59
14	60	61	62	62	63	64	65	66	67	68
15	69	70	71	72	73	73	74	75	76	77

Unit = .000001.

TABLE VI.

$$\text{Constant} - \frac{1}{3} \mu^2 \log_{10} e \cdot \sec^2 D \cdot \xi^2$$

$$= .000070 - .000000373 \xi^2.$$

Add to log. ξ to get log. X.

ξ .	0	1	2	3	4	5	6	7	8	9	ξ .
0	70	70	70	70	70	70	70	70	70	70	0
1	70	70	69	69	69	69	69	69	69	69	1
2	69	68	68	68	68	68	67	67	67	67	2
3	67	66	66	66	66	65	65	65	65	64	3
4	64	63	63	63	63	62	62	62	61	61	4
5	61	60	60	60	59	59	58	58	57	57	5
6	57	56	56	55	55	54	54	53	53	52	6
7	52	51	51	50	50	49	48	48	47	47	7
8	46	46	45	44	44	43	42	42	41	40	8
9	40	39	38	38	37	36	36	35	34	33	9
10	33	32	31	30	30	29	28	27	26	26	10
11	25	24	23	22	22	21	20	19	18	17	11
12	16	15	15	14	13	12	11	10	9	8	12

Unit = .000001.

TABLE IX.—For $D = + 25^\circ$.From $Y = - 13.0$ to $Y = - 9.0$. $\xi = X - \frac{1}{12} X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
— 9.0	·0049	·0097	·0145	·0193	·0240	·0288	·0335	·0383	·0430	·0477	·0524	·0571	·0617	·0662	·0708	— 9.0
1	048	095	143	190	237	284	331	379	426	472	518	564	610	654	699	1
2	048	094	141	188	234	281	327	374	420	465	511	556	602	646	690	2
3	047	093	139	185	231	277	323	369	414	459	504	549	593	637	680	3
4	046	092	137	183	228	274	319	364	408	452	497	541	585	629	671	4
5	046	091	136	181	225	270	314	359	403	446	490	534	577	620	662	5
6	045	089	134	178	222	266	310	354	397	440	484	527	569	611	653	6
7	044	088	132	176	219	262	305	349	392	434	477	520	562	603	644	7
8	043	086	130	173	216	259	301	344	386	428	470	512	553	594	634	8
— 9.9	043	085	128	171	213	255	297	339	381	422	464	505	545	585	625	— 9.9
— 10.0	·0042	·0084	·0126	·0168	·0209	·0251	·0292	·0334	·0375	·0415	·0456	·0497	·0537	·0576	·0616	— 10.0
1	041	083	125	166	206	247	288	329	370	409	450	490	529	568	607	1
2	041	082	123	163	203	244	284	324	364	403	443	483	522	560	597	2
3	040	080	121	161	200	240	280	319	358	397	436	475	513	551	588	3
4	040	079	119	158	197	237	276	315	353	391	430	468	506	543	579	4
5	039	078	117	156	194	233	271	310	348	385	423	460	498	534	570	5
6	038	077	115	153	191	229	267	305	342	379	416	453	489	525	560	6
7	038	076	114	151	188	225	262	300	337	373	409	446	482	517	551	7
8	037	074	112	149	185	222	258	295	331	367	403	439	474	508	542	8
— 10.9	037	073	110	146	182	218	254	290	326	361	396	431	465	499	533	— 10.9
— 11.0	·0036	·0072	·0108	·0144	·0179	·0215	·0250	·0285	·0320	·0354	·0389	·0423	·0457	·0490	·0523	— 11.0
1	035	071	106	141	176	211	245	280	314	348	382	416	449	482	514	1
2	035	069	104	139	173	207	241	275	309	342	376	409	442	474	505	2
3	034	068	102	136	170	204	237	271	304	336	369	401	433	465	496	3
4	034	067	100	134	167	200	233	266	298	330	362	394	426	457	487	4
5	033	066	099	132	164	196	228	261	293	324	356	387	418	448	477	5
6	032	064	097	129	161	193	224	256	287	318	349	380	410	439	468	6
7	032	063	095	127	158	189	220	251	282	312	342	372	402	431	459	7
8	031	062	093	124	154	185	215	246	276	305	335	365	394	422	450	8
— 11.9	031	061	091	121	151	181	211	241	270	299	328	357	385	413	440	— 11.9
— 12.0	·0030	·0059	·0089	·0119	·0148	·0178	·0207	·0236	·0265	·0293	·0322	·0350	·0377	·0404	·0431	— 12.0
1	029	058	087	116	145	174	202	231	259	287	315	343	370	396	422	1
2	029	057	085	114	142	170	198	226	254	281	308	335	362	388	413	2
3	028	055	083	111	139	167	194	221	248	274	301	328	354	379	404	3
4	028	054	081	109	136	163	190	216	243	269	294	320	346	371	395	4
5	027	053	080	107	133	160	186	212	237	262	288	313	338	362	385	5
6	026	052	078	104	130	156	181	207	232	256	281	306	330	353	376	6
7	026	051	076	102	127	152	177	202	226	250	274	298	322	345	367	7
8	025	050	075	100	124	148	172	197	221	244	268	291	314	336	357	8
— 12.9	025	049	073	097	121	144	168	192	215	238	261	284	306	327	348	— 12.9
— 13.0	·0024	·0047	·0071	·0094	·0117	·0140	·0163	·0186	·0210	·0231	·0254	·0276	·0297	·0318	·0339	— 13.0

TABLE X.—For $D = +25^\circ$.

From $Y = -9.0$ to $Y = -4.0$. $\xi = X - \frac{1}{12}X - \frac{1}{240}X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
— 4.0	0038	0075	0112	0149	0186	0223	0259	0296	0333	0369	0405	0440	0475	0510	0544	— 4.0
1	037	074	110	147	183	219	255	291	327	362	397	432	467	501	535	1
2	037	072	108	144	180	215	250	285	320	355	390	425	459	493	526	2
3	036	071	106	142	177	212	247	281	315	349	384	418	451	484	516	3
4	036	070	104	139	174	208	242	276	310	343	377	410	443	475	507	4
5	035	069	103	137	171	204	238	271	304	337	370	403	435	467	498	5
6	034	067	101	135	168	201	234	266	299	331	363	395	427	458	489	6
7	034	066	099	132	164	197	229	261	293	325	356	388	419	450	480	7
8	033	065	097	129	161	193	225	256	288	319	350	381	411	441	470	8
— 4.9	033	064	095	127	158	189	221	252	283	313	343	373	403	432	461	— 4.9
— 5.0	0032	0062	0093	0124	0155	0186	0216	0247	0277	0307	0336	0366	0395	0424	0452	— 5.0
1	031	061	091	122	152	182	212	242	271	300	329	358	387	415	443	1
2	031	060	089	119	149	178	208	237	266	294	322	351	379	407	434	2
3	030	059	088	117	146	175	203	232	260	288	316	344	371	398	424	3
4	030	058	086	115	143	171	199	227	255	282	309	336	363	389	415	4
5	029	056	084	112	140	168	195	222	249	276	302	329	355	381	406	5
6	028	055	082	110	137	164	191	217	244	270	296	322	347	372	397	6
7	028	054	080	107	133	160	186	213	239	264	289	314	339	363	387	7
8	027	053	079	105	130	156	182	208	233	257	282	307	331	354	378	8
— 5.9	027	052	077	102	127	152	177	202	227	251	275	299	323	346	369	— 5.9
— 6.0	0026	0050	0075	0100	0124	0149	0173	0197	0221	0244	0268	0292	0315	0337	0360	— 6.0
1	025	049	073	097	121	145	169	193	216	239	262	285	307	329	351	1
2	025	048	071	095	118	141	164	187	210	232	255	278	300	321	341	2
3	024	047	070	093	115	138	160	183	205	226	248	270	291	312	332	3
4	024	046	068	090	112	134	156	178	199	220	241	263	284	304	323	4
5	023	044	066	088	109	131	152	173	194	214	235	255	276	295	314	5
6	022	043	064	085	106	127	147	168	188	208	228	248	267	286	304	6
7	022	042	062	083	103	123	143	163	183	202	221	241	260	278	295	7
8	021	041	061	080	100	119	138	158	177	196	214	233	251	269	286	8
— 6.9	021	040	059	078	097	116	134	153	172	190	208	226	243	260	276	— 6.9
— 7.0	0020	0038	0057	0075	0094	0112	0130	0148	0166	0183	0201	0218	0235	0251	0267	— 7.0
1	019	037	055	073	091	108	125	144	161	177	194	211	228	243	258	1
2	019	036	053	070	088	105	122	139	156	172	188	204	220	235	249	2
3	018	034	051	068	085	101	117	134	150	165	181	196	212	226	239	3
4	018	033	049	065	081	097	113	129	144	159	174	189	204	217	230	4
5	017	032	048	063	078	094	109	124	139	153	167	182	196	209	221	5
6	016	031	046	061	075	090	104	119	133	147	160	174	187	200	212	6
7	016	030	044	058	072	086	100	114	128	141	154	167	180	192	203	7
8	015	028	042	056	069	082	095	109	122	134	147	160	172	183	193	8
— 7.9	015	027	040	053	066	079	091	104	116	128	140	152	163	174	184	— 7.9
— 8.0	0014	0026	0038	0051	0063	0075	0087	0099	0110	0121	0133	0145	0155	0165	0175	— 8.0
1	013	024	036	048	060	071	082	094	105	115	126	137	147	157	166	1
2	013	023	034	046	057	068	079	090	100	109	119	130	140	149	157	2
3	012	022	033	044	054	064	074	084	094	103	113	123	132	140	148	3
4	012	021	031	041	051	060	070	080	089	097	106	115	124	132	139	4
5	011	020	029	039	048	057	066	075	083	091	099	108	116	123	129	5
6	010	018	027	036	044	053	061	070	078	085	092	100	107	114	120	6
7	010	017	025	033	041	049	057	065	072	079	086	093	100	106	111	7
8	009	016	024	031	038	045	052	060	067	073	079	086	092	097	102	8
— 8.9	009	015	022	029	035	042	048	055	061	067	072	078	083	088	092	— 8.9
— 9.0	0008	0014	0020	0026	0032	0038	0044	0050	0056	0059	0065	0071	0075	0079	0083	— 9.0

TABLE XI.—For $D = +25^\circ$.From $Y = -4.0$ to $Y = +4.0$. $\xi = X - \frac{1}{11} X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
+ 4.0	0053	0105	0157	0210	0261	0312	0365	0416	0468	0518	0570	0621	0672	0722	0771	+ 4.0
+ 3.9	052	104	156	208	259	310	361	412	463	513	563	614	664	713	762	+ 3.9
8	052	103	154	205	256	306	356	407	457	507	557	606	656	705	753	8
7	051	101	152	203	253	303	352	402	452	501	550	599	648	696	743	7
6	050	100	150	200	250	299	348	397	446	495	543	592	640	687	734	6
5	050	099	148	198	247	295	344	392	441	489	537	585	632	678	725	5
4	049	098	146	195	243	291	339	387	435	482	530	577	624	670	716	4
3	048	097	145	193	240	287	335	382	429	476	523	570	616	661	707	3
2	047	095	143	190	237	284	331	377	424	470	516	562	608	653	697	2
1	047	094	141	188	234	280	326	372	418	464	510	555	600	644	688	1
+ 3.0	0046	0093	0139	0185	0231	0276	0322	0367	0413	0458	0503	0547	0592	0636	0679	+ 3.0
+ 2.9	045	091	137	183	228	273	318	362	407	452	496	540	584	627	670	+ 2.9
8	045	090	135	180	225	269	313	357	402	446	489	533	576	618	660	8
7	044	089	133	178	222	265	309	352	396	439	483	526	568	609	651	7
6	044	088	131	175	219	262	305	348	391	433	476	518	560	601	642	6
5	043	087	130	173	216	258	301	343	385	427	469	511	552	592	633	5
4	042	085	128	170	212	254	296	338	380	421	462	503	544	584	623	4
3	042	084	126	168	209	250	292	333	374	415	455	496	536	575	614	3
2	041	083	124	165	206	247	288	328	369	409	449	489	528	566	605	2
1	041	082	122	163	203	243	283	323	363	402	442	481	520	558	596	1
+ 2.0	0040	0080	0120	0160	0200	0239	0279	0318	0357	0396	0435	0473	0511	0549	0586	+ 2.0
+ 1.9	039	079	118	158	197	236	275	313	352	390	428	466	504	541	577	+ 1.9
8	039	078	116	155	194	232	270	308	346	384	422	459	496	532	568	8
7	038	077	115	153	191	228	266	303	341	378	415	452	488	523	558	7
6	038	076	113	150	188	225	262	298	335	372	408	444	480	515	549	6
5	037	074	111	148	185	221	258	294	330	366	402	437	472	506	540	5
4	036	073	109	146	182	217	253	289	324	359	395	430	464	497	531	4
3	036	072	107	143	179	214	249	284	319	353	388	422	456	489	522	3
2	035	071	106	141	176	210	245	279	313	347	381	415	448	480	512	2
1	035	069	104	139	173	206	240	274	308	341	375	408	440	472	503	1
+ 1.0	0034	0068	0102	0136	0170	0203	0236	0269	0302	0335	0368	0400	0432	0463	0494	+ 1.0
+ 0.9	033	067	100	134	167	199	232	264	297	329	361	393	424	454	485	+ 0.9
8	033	066	098	131	164	196	227	259	291	323	354	385	416	446	476	8
7	032	064	097	129	161	192	223	254	286	317	348	378	408	437	466	7
6	032	063	095	126	157	188	219	249	280	311	341	370	400	429	457	6
5	031	062	093	124	154	184	215	245	275	305	334	363	392	420	448	5
4	030	061	091	121	151	180	210	240	269	298	327	356	384	411	439	4
3	030	060	089	119	148	177	206	235	264	292	320	348	376	403	430	3
2	029	058	087	116	145	173	202	230	258	286	314	341	368	394	420	2
+ 0.1	029	057	086	114	142	170	197	225	253	280	307	333	360	386	411	+ 0.1
0.0	0028	0056	0084	0111	0139	0166	0193	0220	0247	0274	0300	0326	0352	0377	0402	0.0

TABLE XI.—continued.

From $Y = -4.0$ to $Y = +4.0$. $\xi = X - \frac{1}{11} X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
0.0	.0028	.0056	.0084	.0111	.0139	.0166	.0193	.0220	.0247	.0274	.0300	.0326	.0352	.0377	.0402	0.0
— 0.1	.027	.055	.082	.109	.136	.162	.189	.215	.242	.268	.293	.319	.344	.368	.393	— 0.1
2	.027	.054	.080	.106	.133	.159	.184	.210	.236	.261	.286	.311	.336	.360	.384	2
3	.026	.052	.078	.104	.130	.155	.180	.205	.230	.255	.280	.304	.328	.351	.374	3
4	.026	.051	.076	.101	.126	.151	.175	.200	.225	.249	.273	.296	.320	.343	.365	4
5	.025	.050	.075	.099	.123	.147	.171	.196	.220	.243	.266	.289	.312	.334	.356	5
6	.024	.049	.073	.097	.120	.144	.167	.191	.214	.237	.259	.282	.304	.325	.347	6
7	.024	.048	.071	.094	.117	.140	.163	.186	.209	.231	.252	.274	.296	.317	.338	7
8	.023	.046	.069	.092	.114	.136	.158	.181	.203	.224	.246	.267	.288	.308	.328	8
— 0.9	.023	.045	.067	.089	.111	.133	.154	.176	.197	.218	.239	.259	.280	.300	.319	— 0.9
— 1.0	.0022	.0044	.0065	.0087	.0108	.0129	.0150	.0171	.0192	.0212	.0232	.0252	.0272	.0291	.0310	— 1.0
1	.021	.043	.064	.085	.105	.125	.145	.166	.186	.206	.225	.245	.264	.282	.301	1
2	.021	.041	.062	.082	.102	.122	.141	.161	.181	.200	.219	.237	.256	.274	.291	2
3	.020	.040	.060	.080	.099	.118	.137	.156	.175	.193	.212	.230	.248	.265	.282	3
4	.020	.039	.058	.077	.096	.114	.132	.151	.169	.187	.205	.222	.240	.257	.273	4
5	.019	.038	.056	.075	.093	.111	.128	.146	.164	.181	.198	.215	.232	.248	.264	5
6	.018	.036	.054	.072	.090	.107	.124	.141	.158	.175	.192	.208	.224	.239	.254	6
7	.018	.035	.052	.070	.087	.103	.119	.136	.153	.169	.185	.200	.216	.231	.245	7
8	.017	.034	.051	.067	.084	.100	.115	.131	.147	.163	.178	.193	.208	.222	.236	8
— 1.9	.017	.033	.049	.065	.081	.096	.111	.127	.142	.157	.172	.186	.200	.214	.227	— 1.9
— 2.0	.0016	.0031	.0047	.0062	.0077	.0092	.0107	.0122	.0136	.0150	.0165	.0178	.0192	.0205	.0217	— 2.0
1	.015	.030	.045	.060	.074	.088	.102	.117	.131	.144	.158	.171	.184	.196	.208	1
2	.015	.029	.043	.057	.071	.085	.098	.112	.125	.138	.151	.163	.176	.188	.199	2
3	.014	.027	.041	.055	.068	.081	.094	.107	.120	.132	.144	.156	.168	.179	.189	3
4	.014	.026	.039	.052	.065	.077	.089	.102	.114	.126	.138	.149	.160	.170	.180	4
5	.013	.025	.038	.050	.062	.074	.085	.097	.109	.120	.131	.142	.152	.162	.171	5
6	.012	.024	.036	.048	.059	.070	.081	.092	.103	.113	.124	.134	.144	.153	.162	6
7	.012	.023	.034	.045	.056	.066	.076	.087	.097	.107	.117	.127	.136	.145	.153	7
8	.011	.021	.032	.043	.053	.062	.072	.082	.092	.101	.111	.120	.128	.136	.144	8
— 2.9	.011	.020	.030	.040	.050	.059	.068	.078	.087	.095	.104	.112	.120	.128	.135	— 2.9
— 3.0	.0010	.0019	.0028	.0038	.0047	.0055	.0064	.0073	.0081	.0089	.0097	.0105	.0112	.0119	.0125	— 3.0
1	.009	.018	.027	.036	.044	.052	.060	.068	.076	.083	.090	.097	.104	.110	.116	1
2	.009	.017	.025	.033	.041	.048	.055	.063	.070	.077	.084	.090	.096	.102	.107	2
3	.008	.015	.023	.031	.038	.045	.052	.058	.065	.071	.077	.083	.088	.093	.098	3
4	.007	.014	.021	.028	.035	.041	.047	.053	.059	.064	.070	.075	.080	.085	.089	4
5	.007	.013	.019	.026	.032	.037	.042	.048	.053	.058	.063	.068	.072	.076	.079	5
6	.006	.012	.017	.023	.028	.033	.038	.043	.048	.052	.057	.061	.064	.067	.070	6
7	.005	.011	.016	.021	.025	.029	.033	.038	.042	.046	.050	.053	.056	.059	.061	7
8	.004	.009	.014	.018	.022	.025	.029	.033	.037	.040	.043	.046	.048	.050	.052	8
— 3.9	.004	.008	.012	.016	.019	.022	.025	.028	.031	.034	.037	.039	.040	.042	.043	— 3.9
— 4.0	.0003	.0007	.0010	.0013	.0016	.0018	.0020	.0023	.0026	.0028	.0030	.0031	.0032	.0033	.0033	— 4.0

TABLE XII.—For $D = +25^\circ$.From $Y = +4.0$ to $Y = +11.0$. $\xi = X - \frac{1}{11} X - \frac{1}{220} X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
+11.0	0051	0100	0150	0200	0250	0299	0348	0397	0446	0495	0544	0592	0640	0688	0736	+11.0
+10.9	050	099	148	198	247	295	344	392	441	489	537	585	633	680	726	+10.9
8	050	098	146	195	244	292	339	387	435	483	530	578	625	671	717	8
7	049	097	145	193	241	288	335	382	429	476	523	570	617	663	708	7
6	048	095	143	191	238	284	331	377	424	470	517	563	609	654	699	6
5	048	094	141	188	235	281	327	372	418	464	510	556	601	645	689	5
4	047	093	139	186	232	277	322	367	413	458	503	548	593	637	680	4
3	046	092	138	184	229	273	318	362	407	452	496	541	585	628	671	3
2	045	090	136	181	226	270	313	357	401	445	490	534	577	619	662	2
1	045	089	134	178	222	266	309	352	396	439	483	526	569	611	652	1
+10.0	0044	0088	0132	0175	0219	0262	0305	0348	0391	0433	0476	0519	0561	0602	0643	+10.0
+9.9	043	087	130	173	216	258	301	343	385	427	469	511	553	594	634	+9.9
8	043	086	128	170	213	255	296	338	380	421	463	504	545	585	625	8
7	042	084	126	168	210	251	292	333	374	415	456	497	537	576	615	7
6	042	083	124	166	207	247	288	328	369	409	449	489	529	568	606	6
5	041	082	123	164	204	243	283	323	363	403	443	482	521	559	597	5
4	040	081	121	161	201	240	279	318	357	396	436	475	513	550	588	4
3	040	080	119	159	198	236	275	313	352	390	429	467	505	542	579	3
2	039	078	117	156	194	232	270	308	346	384	422	460	497	533	569	2
1	039	077	115	154	192	229	266	303	341	378	416	453	489	525	560	1
+9.0	0038	0076	0113	0151	0188	0224	0261	0298	0335	0372	0409	0445	0481	0516	0551	+9.0
+8.9	037	074	111	148	185	221	257	293	330	366	402	438	473	508	542	+8.9
8	037	073	109	146	182	217	253	288	324	360	395	430	465	499	532	8
7	036	072	108	144	179	214	249	284	319	354	389	423	457	490	523	7
6	036	071	106	141	176	210	245	279	314	348	382	415	449	482	514	6
5	035	070	104	139	173	206	240	274	308	341	375	408	441	473	505	5
4	034	068	102	136	170	203	236	269	302	335	368	401	433	465	496	4
3	034	067	100	134	167	199	232	264	297	329	361	393	425	456	486	3
2	033	066	099	132	164	195	227	259	291	323	355	386	417	447	477	2
1	033	065	097	129	161	192	223	254	286	317	348	378	409	439	468	1
+8.0	0032	0063	0095	0126	0157	0188	0219	0249	0280	0310	0341	0371	0401	0430	0459	+8.0
+7.9	031	062	093	124	154	184	214	244	274	304	334	364	393	422	450	+7.9
8	031	061	091	121	151	180	210	239	269	298	327	356	385	413	440	8
7	030	059	089	119	148	177	206	235	264	292	321	349	377	404	431	7
6	030	058	087	116	145	173	202	230	258	286	314	341	369	396	422	6
5	029	057	086	114	142	169	197	225	253	280	307	334	361	387	413	5
4	028	056	084	111	139	166	193	220	247	273	300	327	353	379	404	4
3	028	055	082	109	136	162	189	215	241	267	293	319	345	370	394	3
2	027	053	080	106	133	159	185	210	236	261	287	312	337	361	385	2
1	027	052	078	104	130	155	180	205	230	255	280	304	329	353	376	1
+7.0	0026	0051	0076	0101	0126	0151	0176	0200	0225	0249	0273	0297	0321	0344	0367	+7.0

TABLE XII.—*continued.*

From $Y = +4.0$ to $Y = +11.0$ $\xi = X - \frac{1}{11} X - \frac{1}{220} X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
+ 7.0	0026	0051	0076	0101	0126	0151	0176	0200	0225	0249	0273	0297	0321	0344	0367	+ 7.0
+ 6.9	025	050	074	099	124	148	172	195	219	243	266	290	313	336	358	+ 6.9
8	025	049	073	097	121	144	167	190	214	237	260	282	305	327	348	8
7	024	047	071	094	118	141	163	185	208	230	253	275	297	318	339	7
6	024	046	069	092	115	137	159	181	203	224	246	268	289	310	330	6
5	023	045	067	090	112	133	155	176	197	218	239	260	281	301	321	5
4	022	044	066	088	109	129	150	171	192	212	233	253	273	292	311	4
3	022	043	064	085	106	126	146	166	186	206	226	246	265	283	302	3
2	021	041	062	083	103	122	142	161	181	200	219	238	257	275	293	2
1	021	040	060	080	099	118	137	156	175	193	212	231	249	266	283	1
+ 6.0	0020	0039	0058	0077	0096	0114	0133	0151	0169	0187	0206	0224	0241	0257	0274	+ 6.0
+ 5.9	019	038	056	075	093	111	129	146	164	181	199	216	233	249	265	+ 5.9
8	019	037	054	072	090	107	124	141	158	175	192	208	225	241	256	8
7	018	035	053	070	087	103	120	136	153	169	186	202	217	232	246	7
6	018	034	051	067	084	100	116	131	147	163	179	195	210	224	237	6
5	017	033	049	065	081	096	112	127	142	157	172	187	201	215	228	5
4	016	032	047	063	078	092	107	122	136	150	165	180	193	206	219	4
3	016	031	045	060	075	089	103	117	131	144	158	172	185	198	210	3
2	015	029	044	058	072	085	099	112	125	138	152	165	177	189	200	2
1	015	028	042	055	068	081	094	107	120	132	145	158	169	180	191	1
+ 5.0	0014	0027	0040	0052	0065	0077	0090	0102	0114	0126	0138	0150	0161	0171	0182	+ 5.0
+ 4.9	013	026	038	050	062	074	086	097	109	120	131	143	153	163	173	+ 4.9
8	013	024	036	047	059	070	081	092	103	114	125	136	146	155	164	8
7	012	023	034	045	056	066	077	087	097	108	119	129	138	146	154	7
6	012	022	032	042	053	063	073	082	092	102	112	121	130	138	145	6
5	011	021	031	040	050	059	069	078	087	096	105	114	122	129	136	5
4	010	019	029	038	047	055	064	073	081	089	098	106	113	120	127	4
3	010	018	027	035	044	052	060	068	076	083	091	099	106	112	118	3
2	009	017	025	033	041	048	056	063	070	077	084	091	097	103	108	2
1	009	016	023	030	037	044	051	058	065	071	077	084	090	095	099	1
+ 4.0	0008	0014	0021	0028	0034	0040	0047	0053	0059	0064	0070	0076	0082	0086	0090	+ 4.0

TABLE XIII.—For $D = +25^\circ$.From $Y = +11.0$ to $Y = +13.0$. $\xi = X - \frac{1}{10} X$ — following table.

Y.	X=1.	X=2.	X=3.	X=4.	X=5.	X=6.	X=7.	X=8.	X=9.	X=10.	X=11.	X=12.	X=13.	X=14.	X=15.	Y.
+13.0	.0017	.0034	.0050	.0067	.0084	.0100	.0116	.0132	.0148	.0164	.0179	.0194	.0209	.0223	.0237	+13.0
+12.9	016	033	049	065	081	096	112	127	143	158	172	187	201	214	228	+12.9
8	016	032	047	062	078	093	107	122	137	152	166	179	193	206	219	8
7	015	030	045	060	075	089	103	117	131	145	159	172	185	197	209	7
6	015	029	043	057	071	085	099	112	126	139	152	164	177	189	200	6
5	014	028	041	055	068	082	095	108	121	133	145	157	169	180	191	5
4	013	026	039	052	065	078	090	103	115	127	138	150	161	171	182	4
3	013	025	037	050	062	074	086	098	110	121	131	142	153	163	173	3
2	012	024	036	047	059	070	082	093	104	114	125	135	145	154	163	2
1	012	023	034	045	056	067	077	088	098	108	118	127	137	146	154	1
+12.0	.0011	.0022	.0032	.0042	.0053	.0063	.0073	.0083	.0093	.0102	.0111	.0120	.0129	.0137	.0145	+12.0
+11.9	010	020	030	040	050	059	069	078	087	096	104	113	121	128	136	+11.9
8	010	019	028	037	047	056	064	073	082	090	098	105	113	120	127	8
7	009	018	026	035	044	052	060	068	076	084	091	098	105	111	117	7
6	009	017	024	032	040	048	056	063	071	078	084	090	097	103	108	6
5	008	016	023	030	037	045	052	059	065	072	078	083	089	094	099	5
4	007	014	021	028	034	041	048	054	059	065	071	076	081	085	090	4
3	007	013	019	025	031	037	043	049	054	059	064	068	073	077	081	3
2	006	012	017	023	028	033	039	044	048	053	057	061	065	068	071	2
1	006	010	015	020	025	030	034	039	043	047	051	054	057	060	062	1
+11.0	.0005	.0009	.0013	.0018	.0022	.0026	.0030	.0033	.0037	.0040	.0044	.0046	.0049	.0051	.0053	+11.0

TABLE XIV.—For $D = + 25^\circ$.From $\eta = -13.0$ to $\eta = -9.5$. $X = \xi + \frac{1}{11}\xi +$ following table.

η .	$\xi=1$.	$\xi=2$.	$\xi=3$.	$\xi=4$.	$\xi=5$.	$\xi=6$.	$\xi=7$.	$\xi=8$.	$\xi=9$.	$\xi=10$.	$\xi=11$.	$\xi=12$.	$\xi=13$.	η .
— 9.5	0054	0108	0162	0216	0269	0322	0375	0428	0480	0531	0582	0632	0682	— 9.5
6	053	107	160	213	266	318	370	422	473	524	574	623	672	6
7	052	105	158	210	262	314	365	416	466	516	565	614	663	7
8	052	104	155	207	258	309	360	410	459	508	557	605	653	8
— 9.9	051	102	153	204	255	305	354	404	453	501	549	597	644	— 9.9
— 10.0	0050	0101	0151	0201	0251	0300	0349	0398	0446	0494	0541	0588	0634	— 10.0
1	049	099	149	198	247	296	344	392	439	486	533	579	624	1
2	049	098	147	195	243	291	339	386	433	479	525	570	615	2
3	048	096	144	192	240	287	333	380	426	472	517	561	605	3
4	047	095	142	189	236	282	328	374	419	464	509	553	596	4
5	047	094	140	187	233	278	323	368	413	457	501	544	586	5
6	046	092	138	184	229	273	318	362	406	450	493	535	576	6
7	045	091	136	181	225	269	313	357	400	442	484	526	567	7
8	044	089	134	178	221	264	308	351	393	435	476	517	557	8
— 10.9	044	088	131	175	218	260	302	345	387	428	468	508	548	— 10.9
— 11.0	0043	0086	0129	0172	0214	0255	0297	0339	0380	0420	0460	0500	0538	— 11.0
1	042	085	127	169	210	251	292	333	373	413	452	491	529	1
2	042	083	125	166	206	246	287	327	367	406	444	482	519	2
3	041	082	122	163	203	242	282	321	360	398	436	473	509	3
4	040	080	120	160	199	238	277	315	353	391	428	464	500	4
5	040	079	118	157	196	234	272	310	347	384	420	455	490	5
6	039	077	116	154	192	229	267	304	340	376	411	446	480	6
7	038	076	114	151	188	224	261	298	334	369	403	437	471	7
8	037	074	111	148	184	220	256	292	327	361	395	428	461	8
— 11.9	037	073	109	145	181	216	251	286	320	354	387	420	452	— 11.9
— 12.0	0036	0071	0107	0142	0177	0211	0246	0280	0313	0346	0379	0411	0442	— 12.0
1	035	070	105	139	173	207	241	274	307	339	371	402	433	1
2	034	068	102	136	170	203	236	268	300	332	363	393	423	2
3	034	067	100	133	166	198	230	262	294	325	355	385	414	3
4	033	065	098	130	162	193	225	256	287	317	347	376	404	4
5	032	064	096	128	159	189	220	250	280	310	339	367	395	5
6	031	063	094	125	155	185	215	245	274	303	331	358	385	6
7	030	061	092	122	152	181	210	239	267	295	322	349	376	7
8	030	060	089	119	148	176	204	233	261	288	314	340	366	8
— 12.9	029	058	087	116	144	172	199	227	254	280	306	332	357	— 12.9
— 13.0	0028	0057	0085	0113	0140	0167	0194	0221	0247	0273	0298	0323	0347	— 13.0

TABLE XV.—For $D = +25^\circ$.From $\eta = -9.5$ to $\eta = -4.0$. $X = \xi + \frac{1}{11}\xi + \frac{1}{200}\xi + \text{following table.}$

η .	$\xi=1$.	$\xi=2$.	$\xi=3$.	$\xi=4$.	$\xi=5$.	$\xi=6$.	$\xi=7$.	$\xi=8$.	$\xi=9$.	$\xi=10$.	$\xi=11$.	$\xi=12$.	$\xi=13$.	η .
— 4.0	0045	0090	0134	0179	0223	0266	0310	0353	0396	0439	0481	0522	0562	— 4.0
1	044	088	132	176	219	262	305	347	390	432	473	513	552	1
2	043	087	130	173	216	258	300	341	383	424	464	504	543	2
3	043	085	127	170	212	253	294	335	376	416	456	495	533	3
4	042	084	125	167	208	248	289	329	369	409	448	486	524	4
5	041	082	123	164	204	244	284	324	363	402	440	477	514	5
6	040	081	121	161	201	240	279	318	356	394	431	468	504	6
7	039	079	119	158	197	235	274	312	350	387	423	459	495	7
8	039	078	116	155	193	231	268	306	343	379	415	450	485	8
— 4.9	038	076	114	152	189	226	263	300	336	372	407	441	476	— 4.9
— 5.0	0037	0075	0112	0149	0186	0222	0258	0294	0329	0364	0399	0432	0466	— 5.0
1	036	073	110	146	182	218	253	288	323	357	391	424	456	1
2	036	072	108	143	178	213	248	282	316	349	382	415	447	2
3	035	070	105	140	175	209	242	276	309	342	374	406	437	3
4	034	069	103	137	171	204	237	270	303	335	366	397	427	4
5	034	068	101	135	168	200	232	265	297	328	358	388	418	5
6	033	066	099	132	164	195	227	259	290	320	350	379	408	6
7	032	065	097	129	160	191	222	253	283	312	341	370	398	7
8	031	063	095	126	156	186	217	247	276	305	333	361	388	8
— 5.9	031	062	092	123	153	182	211	241	270	298	325	352	379	— 5.9
— 6.0	0030	0060	0090	0120	0149	0177	0206	0235	0263	0290	0317	0343	0369	— 6.0
1	029	059	088	117	145	173	201	229	256	283	309	334	359	1
2	029	057	086	114	142	169	196	223	250	276	301	325	350	2
3	028	056	083	111	138	164	190	217	243	268	293	317	340	3
4	027	054	081	108	134	159	185	211	236	261	285	308	331	4
5	027	053	079	105	130	155	180	205	230	254	277	299	321	5
6	026	051	077	102	127	151	175	199	223	246	268	290	311	6
7	025	050	075	099	123	146	170	193	216	238	260	281	302	7
8	024	048	072	096	119	142	164	187	209	231	252	272	292	8
— 6.9	024	047	070	093	115	137	159	181	203	224	243	263	283	— 6.9
— 7.0	0023	0045	0068	0090	0112	0133	0154	0175	0196	0216	0235	0254	0273	— 7.0
1	022	044	066	087	108	129	149	169	189	209	228	246	263	1
2	021	042	063	084	104	124	144	163	182	201	219	237	254	2
3	021	041	061	081	101	120	138	157	176	194	211	228	244	3
4	020	039	059	078	097	115	133	151	169	186	203	219	235	4
5	019	038	057	075	093	111	128	146	163	179	195	210	225	5
6	018	036	054	072	090	107	123	140	156	172	187	201	215	6
7	017	035	052	069	086	102	118	134	149	164	178	192	206	7
8	017	033	050	066	082	097	113	128	142	156	170	183	196	8
— 7.9	0016	0032	0047	0063	0078	0093	0107	0122	0136	0149	0162	0175	0187	— 7.9

TABLE XV.—*continued.*

From $\eta = -9.5$ to $\eta = -4.0$. $X = \xi + \frac{1}{11}\xi + \frac{1}{200}\xi +$ following table.

η .	$\xi=1$.	$\xi=2$.	$\xi=3$.	$\xi=4$.	$\xi=5$.	$\xi=6$.	$\xi=7$.	$\xi=8$.	$\xi=9$.	$\xi=10$.	$\xi=11$.	$\xi=12$.	$\xi=13$.	η .
— 7.9	.0016	.0032	.0047	.0063	.0078	.0093	.0107	.0122	.0136	.0149	.0162	.0175	.0187	— 7.9
— 8.0	.0015	.0030	.0045	.0060	.0075	.0089	.0102	.0116	.0129	.0142	.0154	.0166	.0177	— 8.0
1	014	029	043	057	071	084	097	110	122	134	146	157	167	1
2	014	027	041	054	067	079	092	104	116	127	138	148	158	2
3	013	026	038	051	063	075	087	098	109	120	130	139	148	3
4	012	024	036	048	060	071	082	092	102	112	122	131	139	4
5	012	023	034	046	057	067	077	087	096	105	114	122	129	5
6	011	022	032	043	053	062	071	081	090	098	106	113	119	6
7	010	020	030	040	049	057	066	075	083	090	097	104	109	7
8	009	019	028	037	045	053	061	069	076	083	089	095	100	8
— 8.9	009	017	025	034	042	049	056	063	070	076	081	086	090	— 8.9
— 9.0	.0008	.0016	.0023	.0031	.0038	.0044	.0051	.0057	.0063	.0068	.0073	.0077	.0080	— 9.0
1	007	014	021	028	034	040	046	051	056	061	065	068	070	1
2	007	013	019	025	031	036	041	045	049	053	056	059	061	2
3	006	011	016	022	027	031	035	039	043	046	048	050	051	3
4	005	010	014	019	023	026	030	033	036	038	040	041	041	4
— 9.5	.0004	.0008	.0012	.0016	.0019	.0022	.0025	.0028	.0030	.0031	.0032	.0032	.0032	— 9.5

TABLE XVI.—For $D = +25^\circ$.From $\eta = -4.0$ to $\eta = +2.5$. $X = \xi + \frac{1}{10}\xi + \text{following table.}$

η .	$\xi = 1.$	$\xi = 2.$	$\xi = 3.$	$\xi = 4.$	$\xi = 5.$	$\xi = 6.$	$\xi = 7.$	$\xi = 8.$	$\xi = 9.$	$\xi = 10.$	$\xi = 11.$	$\xi = 12.$	$\xi = 13.$	η .
+ 2.5	0052	0105	0157	0209	0261	0313	0364	0415	0466	0516	0565	0614	0662	+ 2.5
4	052	103	155	206	257	308	359	409	459	508	557	605	652	4
3	051	102	153	203	254	304	354	403	452	501	549	596	642	3
2	051	101	151	200	250	299	348	397	445	493	540	587	633	2
1	050	099	148	197	246	295	343	391	439	486	532	578	623	1
+ 2.0	0049	0097	0146	0194	0242	0290	0338	0385	0432	0478	0524	0569	0613	+ 2.0
+ 1.9	048	096	144	191	239	286	333	379	425	471	516	560	603	+ 1.9
8	047	094	141	188	235	281	327	373	418	463	507	551	594	8
7	047	093	139	185	231	277	322	367	412	456	499	542	584	7
6	046	091	137	182	227	272	317	361	405	448	491	533	574	6
5	045	090	135	179	224	268	312	355	398	441	483	524	565	5
4	044	088	132	176	220	263	306	349	391	433	474	515	555	4
3	043	087	130	173	216	259	301	343	385	426	466	506	545	3
2	043	085	128	170	212	254	296	337	378	418	458	497	535	2
1	042	084	125	167	209	250	291	331	371	411	450	488	526	1
+ 1.0	0041	0082	0123	0164	0205	0245	0286	0325	0365	0403	0441	0479	0516	+ 1.0
+ 0.9	040	081	121	161	201	241	280	319	358	396	433	470	506	+ 0.9
8	040	079	119	158	197	236	275	313	351	388	425	461	496	8
7	039	078	116	155	194	232	270	307	344	380	416	452	487	7
6	038	076	114	152	190	227	264	301	337	373	408	443	477	6
5	038	075	112	150	187	223	259	295	331	366	400	434	467	5
4	037	074	110	147	183	219	254	289	324	358	392	425	457	4
3	036	072	108	144	179	214	249	283	317	351	384	416	447	3
2	035	070	105	141	176	210	244	277	310	343	375	407	438	2
+ 0.1	035	069	103	138	172	205	238	271	304	336	367	398	428	+ 0.1
0.0	0034	0068	0101	0135	0168	0201	0233	0265	0297	0328	0359	0389	0418	0.0
- 0.1	033	066	099	132	164	196	228	259	290	321	351	380	408	- 0.1
2	032	065	097	129	160	192	223	253	283	313	342	371	399	2
3	032	063	094	126	157	187	217	247	277	306	334	362	389	3
4	031	062	092	123	153	183	212	241	270	298	326	353	379	4
5	030	060	090	120	149	178	207	235	263	291	318	344	370	5
6	029	059	088	117	145	174	202	229	256	283	309	335	360	6
7	028	057	086	114	141	169	196	223	250	276	301	326	350	7
8	028	056	083	111	138	165	191	217	243	268	293	317	340	8
- 0.9	027	054	081	108	134	160	186	211	236	261	285	308	331	- 0.9
- 1.0	0026	0053	0079	0105	0130	0156	0181	0205	0229	0253	0276	0299	0321	- 1.0

TABLE XVI.—*continued.*

From $\eta = -4.0$ to $\eta = +2.5$. $X = \xi + \frac{1}{10}\xi +$ following table.

η	$\xi=1.$	$\xi=2.$	$\xi=3.$	$\xi=4.$	$\xi=5.$	$\xi=6.$	$\xi=7.$	$\xi=8.$	$\xi=9.$	$\xi=10.$	$\xi=11.$	$\xi=12.$	$\xi=13.$	η
— 1.0	0026	0053	0079	0105	0130	0156	0181	0205	0229	0253	0276	0299	0321	— 1.0
1	025	051	077	102	127	152	176	199	223	246	268	290	311	1
2	025	050	074	099	123	147	170	193	216	238	260	281	302	2
3	024	048	072	096	119	142	165	187	209	231	252	272	292	3
4	023	047	070	093	115	138	160	181	203	224	244	263	282	4
5	023	046	068	090	112	134	155	176	196	216	236	255	273	5
6	022	044	065	087	108	129	150	170	190	209	228	246	263	6
7	021	042	063	084	104	125	145	164	183	201	219	237	254	7
8	020	041	061	081	100	120	139	158	176	194	211	228	244	8
— 1.9	020	039	058	078	097	116	134	152	169	186	203	219	234	— 1.9
— 2.0	0019	0038	0056	0075	0093	0111	0129	0146	0163	0179	0194	0210	0224	— 2.0
1	018	036	054	072	089	107	124	140	156	171	186	201	215	1
2	017	035	052	069	086	102	118	134	149	164	178	192	205	2
3	017	033	049	066	082	098	113	128	143	157	170	183	195	3
4	016	032	047	063	078	093	108	122	136	149	161	174	186	4
5	015	030	045	060	075	089	103	116	129	141	153	165	176	5
6	014	029	043	057	071	084	097	110	122	134	145	156	166	6
7	013	027	041	054	067	080	092	104	116	127	137	147	156	7
8	013	026	038	051	063	075	087	098	109	119	129	138	146	8
— 2.9	012	024	036	048	060	071	081	092	102	112	121	129	137	— 2.9
— 3.0	0011	0023	0034	0045	0056	0066	0076	0086	0096	0104	0112	0120	0127	— 3.0
1	010	021	032	042	052	062	071	080	089	097	104	111	117	1
2	010	020	029	039	048	057	066	074	082	089	096	102	108	2
3	009	018	027	036	045	053	060	068	075	082	088	093	098	3
4	008	017	025	033	041	048	055	062	069	075	080	084	088	4
5	008	016	023	030	037	044	050	056	062	067	072	076	079	5
6	007	014	020	027	033	039	045	050	055	060	064	067	069	6
7	006	012	018	024	029	035	040	044	048	052	055	058	060	7
8	005	011	016	021	026	030	034	038	042	045	047	049	050	8
— 3.9	005	010	014	018	022	026	029	032	035	037	039	040	040	— 3.9
— 4.0	0004	0008	0011	0015	0018	0021	0024	0026	0028	0030	0031	0031	0030	— 4.0

TABLE XVII.—For $D = +25^\circ$.From $\eta = +2.5$ to $\eta = +10.5$. $X = \xi + \frac{1}{10} \xi + \frac{1}{200} \xi +$ following table.

η .	$\xi=1$.	$\xi=2$.	$\xi=3$.	$\xi=4$.	$\xi=5$.	$\xi=6$.	$\xi=7$.	$\xi=8$.	$\xi=9$.	$\xi=10$.	$\xi=11$.	$\xi=12$.	$\xi=13$.	η .
+10.5	.0062	.0125	.0188	.0250	.0312	.0374	.0436	.0498	.0559	.0620	.0679	.0738	.0798	+10.5
4	062	124	186	248	309	371	432	492	552	612	671	730	788	4
3	061	123	184	245	306	367	427	486	545	604	662	720	778	3
2	060	121	182	242	302	362	421	480	539	597	654	711	768	2
1	060	120	179	239	298	357	416	474	532	589	646	702	758	1
+10.0	.0059	.0118	.0177	.0236	.0294	.0353	.0411	.0468	.0525	.0582	.0638	.0693	.0748	+10.0
+ 9.9	058	117	175	233	290	348	405	462	518	574	629	684	738	+ 9.9
8	058	115	172	230	287	344	400	456	511	566	621	675	728	8
7	057	114	170	227	283	339	395	450	505	559	613	666	718	7
6	056	112	168	224	279	335	390	444	498	551	604	657	709	6
5	056	111	166	221	276	330	384	438	491	544	596	648	699	5
4	055	109	163	218	272	325	379	432	484	536	587	638	689	4
3	054	108	161	215	268	321	374	426	477	528	579	629	679	3
2	053	106	159	212	264	316	368	419	470	521	571	620	669	2
1	053	105	157	209	261	312	363	413	464	514	563	611	659	1
+ 9.0	.0052	.0103	.0154	.0206	.0257	.0307	.0358	.0407	.0457	.0506	.0554	.0602	.0649	+ 9.0
+ 8.9	051	102	152	203	253	303	352	401	450	498	546	593	639	+ 8.9
8	050	100	150	200	249	298	347	395	443	490	537	584	630	8
7	050	099	148	197	246	294	342	389	436	483	529	575	620	7
6	049	097	145	194	242	289	336	383	430	476	521	566	610	6
5	048	096	143	191	238	285	331	377	423	468	513	557	600	5
4	047	094	141	187	234	280	326	371	416	460	504	547	590	4
3	046	093	139	184	230	276	321	365	409	453	496	538	580	3
2	046	091	136	181	226	271	315	359	402	445	487	529	571	2
1	045	090	134	178	223	267	310	353	396	438	479	520	561	1
+ 8.0	.0044	.0088	.0132	.0175	.0219	.0262	.0305	.0347	.0389	.0430	.0471	.0511	.0551	+ 8.0
+ 7.9	043	087	130	172	215	257	299	341	382	422	462	502	541	+ 7.9
8	042	085	127	169	211	253	294	335	375	415	454	493	531	8
7	042	084	125	166	207	248	289	329	368	407	446	484	521	7
6	041	082	123	163	204	244	284	323	362	400	438	475	511	6
5	040	081	121	160	200	239	278	317	355	392	429	466	502	5
4	039	079	118	157	196	234	272	310	348	385	421	456	492	4
3	038	077	116	154	192	230	267	304	341	377	412	447	482	3
2	038	076	114	151	188	225	262	298	334	369	404	438	472	2
1	037	074	111	148	185	221	257	292	327	362	396	429	462	1
+ 7.0	.0036	.0073	.0109	.0145	.0181	.0216	.0251	.0286	.0320	.0354	.0387	.0420	.0452	+ 7.0
+ 6.9	035	071	107	142	177	211	246	280	314	347	379	411	442	+ 6.9
8	035	070	104	139	173	207	241	274	307	339	371	402	433	8
7	034	068	102	136	170	203	236	268	300	332	363	393	423	7
6	033	067	100	133	166	199	231	262	293	324	354	384	413	6
+ 6.5	.0033	.0066	.0098	.0130	.0162	.0194	.0225	.0256	.0287	.0317	.0346	.0375	.0404	+ 6.5

TABLE XVII.—*continued.*

From $\eta = +2.5$ to $\eta = +10.5$. $X = \xi + \frac{1}{10} \xi + \frac{1}{200} \xi +$ following table.

η .	$\xi=1.$	$\xi=2.$	$\xi=3.$	$\xi=4.$	$\xi=5.$	$\xi=6.$	$\xi=7.$	$\xi=8.$	$\xi=9.$	$\xi=10.$	$\xi=11.$	$\xi=12.$	$\xi=13.$	η .
+ 6.5	0033	0066	0098	0130	0162	0194	0225	0256	0287	0317	0346	0375	0404	+ 6.5
4	032	064	095	127	158	189	220	250	280	309	338	366	394	4
3	031	062	093	124	154	185	215	244	273	302	330	357	384	3
2	030	061	091	121	151	180	209	238	267	295	322	348	374	2
1	030	059	088	118	147	176	204	232	260	287	313	339	365	1
+ 6.0	0029	0058	0086	0115	0143	0171	0199	0226	0253	0279	0305	0330	0355	+ 6.0
+ 5.9	028	056	084	112	139	167	194	220	246	272	297	321	345	+ 5.9
8	027	055	082	109	135	162	188	214	239	264	288	312	335	8
7	027	053	079	106	132	158	183	208	233	257	280	303	325	7
6	026	052	077	103	128	153	178	202	226	249	272	294	315	6
5	025	050	075	100	124	149	173	196	219	242	264	285	306	5
4	024	049	073	097	120	144	167	190	212	234	255	275	296	4
3	023	047	071	094	117	140	162	184	205	226	246	266	286	3
2	023	046	068	091	113	135	157	178	199	219	238	257	276	2
1	022	044	066	088	109	130	151	172	192	211	230	248	266	1
+ 5.0	0021	0043	0064	0085	0105	0126	0146	0166	0185	0204	0222	0239	0256	+ 5.0
+ 4.9	020	041	062	082	102	122	141	160	178	196	213	230	246	+ 4.9
8	020	040	059	079	098	117	136	154	171	188	205	221	237	8
7	019	038	057	076	094	112	130	148	165	181	197	212	227	7
6	018	037	055	073	090	108	125	142	158	174	189	203	217	6
5	018	036	053	070	087	104	120	136	151	166	180	194	208	5
4	017	034	050	067	083	099	114	129	144	158	172	185	198	4
3	016	032	048	064	079	094	109	123	137	151	164	176	188	3
2	015	031	046	061	075	090	104	117	130	143	155	167	178	2
1	015	029	043	058	072	085	098	111	124	136	147	158	169	1
+ 4.0	0014	0028	0041	0055	0068	0081	0093	0105	0117	0128	0139	0149	0159	+ 4.0
+ 3.9	013	026	039	052	064	076	088	099	110	121	131	140	149	+ 3.9
8	012	025	037	049	060	072	083	093	103	113	122	131	139	8
7	012	023	034	046	057	067	077	087	097	106	114	122	130	7
6	011	022	032	043	053	063	072	081	090	098	106	113	120	6
5	010	020	030	040	049	058	067	075	083	091	098	104	110	5
4	009	018	027	036	045	054	062	069	076	083	089	095	100	4
3	008	017	025	033	041	049	056	063	070	076	081	086	090	3
2	008	015	023	030	038	045	051	057	063	068	073	077	081	2
1	007	014	021	027	034	040	046	051	056	061	065	068	071	1
+ 3.0	0006	0012	0019	0024	0030	0036	0041	0045	0049	0053	0056	0059	0061	+ 3.0
+ 2.9	005	010	016	021	026	031	035	039	043	046	048	050	051	+ 2.9
8	004	009	014	018	022	026	030	033	036	038	040	041	041	8
7	004	008	012	015	019	022	025	027	029	031	032	032	032	7
6	003	007	010	012	015	018	020	021	022	023	023	023	022	6
+ 2.5	0002	0005	0007	0009	0011	0013	0014	0015	0016	0016	0015	0014	0012	+ 2.5

TABLE XVIII.—For D. = + 25°.

From $\eta = +10.5$ to $\eta = +13.0$. $X = \xi + \frac{1}{9} \xi$ + following table.

η .	$\xi=1$.	$\xi=2$.	$\xi=3$.	$\xi=4$.	$\xi=5$.	$\xi=6$.	$\xi=7$.	$\xi=8$.	$\xi=9$.	$\xi=10$.	$\xi=11$.	$\xi=12$.	$\xi=13$.	η .
+13.0	0021	0042	0063	0083	0102	0122	0142	0161	0180	0199	0217	0234	0250	+13.0
+12.9	020	041	061	080	099	118	137	155	173	191	208	224	240	+12.9
8	019	039	058	077	095	113	131	149	166	183	199	215	230	8
7	019	038	056	074	091	109	126	143	160	176	191	206	220	7
6	018	036	054	071	087	104	121	137	153	168	183	197	210	6
5	017	035	052	068	084	100	116	131	146	161	175	188	201	5
4	016	033	049	065	080	095	110	125	139	153	166	179	191	4
3	015	031	047	062	076	091	105	119	132	145	158	170	181	3
2	015	030	045	059	072	086	100	113	126	138	149	160	171	2
1	014	029	043	056	068	081	094	107	119	130	141	151	161	1
+12.0	0013	0027	0040	0053	0065	0077	0089	0101	0112	0123	0133	0142	0151	+12.0
+11.9	012	025	038	050	061	072	084	095	105	115	124	133	141	+11.9
8	012	024	036	047	057	068	078	088	098	107	116	124	131	8
7	011	022	033	043	053	063	073	082	091	100	108	115	122	7
6	010	021	031	040	049	059	068	076	084	092	099	106	112	6
5	010	019	028	037	045	054	062	070	078	085	091	097	102	5
4	009	017	026	034	041	049	057	064	071	077	082	087	092	4
3	008	016	024	031	038	045	052	058	064	069	074	078	082	3
2	007	014	021	028	034	040	046	052	057	062	066	069	073	2
1	007	013	019	025	030	036	041	046	050	054	057	060	063	1
+11.0	0006	0011	0017	0022	0026	0031	0036	0040	0043	0046	0049	0051	0053	+11.0
+10.9	004	009	014	019	023	026	030	034	037	039	041	042	043	+10.9
8	004	008	012	016	019	022	025	028	030	032	033	033	033	8
7	003	006	010	013	015	017	020	022	023	024	024	024	024	7
6	002	005	008	010	011	013	015	016	016	016	015	015	014	6
+10.5	0001	0003	0005	0006	0007	0008	0009	0010	0010	0009	0008	0006	0004	+10.5

OXFORD ASTROGRAPHIC CATALOGUE

T A B L E S

FOR THE CONVERSION OF

MEASURED DIAMETERS OF THE STAR IMAGES

INTO

STELLAR PHOTOGRAPHIC MAGNITUDES

BY MEANS OF THE ADOPTED FORMULA

$$m = a - b\sqrt{d}$$

(See *Mon. Not. R.A.S.*, Vol. lxxv. pp. 755-775.)

TABLE FOR CONVERTING DIAMETERS (d) INTO STELLAR MAGNITUDES (m) BY THE FORMULA $m = a - b\sqrt{d}$. $b = 1.02, \quad a = 13.0 \text{ to } 13.9.$ $b = 1.02, \quad a = 14.0 \text{ to } 14.9.$

d	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	d	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	d
4	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	5	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	5
6	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	6	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	6
7	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	7	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	7
8	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	8	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	8
9	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	9	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	9
10	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	10
11	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	11	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11
12	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	12	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	12
13	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	13	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	13
14	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	14	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	14
15	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	15	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	15
16	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	16	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	16
17	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	17	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	17
18	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	18	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	18
19	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	19	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	19
20	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	20	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	20
21	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	21	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	21
22	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	22	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	22
23	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	23	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	23
24	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	24	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	24
25	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	25	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	25
26	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	26	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	26
27	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	27	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	27
28	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	28	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	28
29	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	29	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	29
30	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	30	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	30
31	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	31	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	31
32	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	32	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	32
33	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	33	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	33
34	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	34	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	34
35	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	35	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	35
36	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	36	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	36
37	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	37	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	37
38	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	38	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	38
39	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	39	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	39
40	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	40	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	40
41	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	41	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	41
42	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	42	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	42
43	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	43	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	43
44	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	44	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	44
45	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	45	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	45
46	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	46	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	46
47	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	47	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	47
48	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	48	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	48
49	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	49	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	49
50	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	50	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	50
52	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	52	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	52
54	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	54	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	54
56	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	56	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	56
58	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	58	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	58
60	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	60	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	60
65	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	65	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	65
70	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	70	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	70
75	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	75	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	75
80	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	80	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	80
85	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	85	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	85
90	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	90	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	90
95	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	95	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	95
	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9		14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	

TABLE FOR CONVERTING DIAMETERS (d) INTO STELLAR MAGNITUDES (m) BY THE FORMULA $m = a - b\sqrt{d}$. $b = 1.02, \quad a = 15.0 \text{ to } 15.9.$ $b = 1.02, \quad a = 16.0 \text{ to } 16.9.$

d	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	d	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	d
4	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	4	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	4
5	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	5	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	5
6	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	6	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	6
7	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	7	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	7
8	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	8	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	8
9	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	9	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	9
10	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	10	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	10
11	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	11	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	11
12	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	12
13	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	13	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13
14	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	14	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	14
15	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	15	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	15
16	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	16	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	16
17	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	17	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	17
18	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	18	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	18
19	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	19	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	19
20	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	20	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	20
21	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	21	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	21
22	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	22	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	22
23	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	23	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	23
24	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	24	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	24
25	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	25	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	25
26	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	26	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	26
27	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	27	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	27
28	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	28	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	28
29	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	29	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	29
30	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	30	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	30
31	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	31	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	31
32	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	32	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	32
33	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	33	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	33
34	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	34	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	34
35	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	35	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	35
36	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	36	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	36
37	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	37	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	37
38	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	38	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	38
39	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	39	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	39
40	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	40	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	40
41	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	41	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	41
42	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	42	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	42
43	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	43	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	43
44	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	44	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	44
45	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	45	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	45
46	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	46	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	46
47	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	47	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	47
48	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	48	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	48
49	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	49	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	49
50	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	50	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	50
52	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	52	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	52
54	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	54	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	54
56	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	56	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	56
58	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	58	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	58
60	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	60	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	60
65	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	65	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	65
70	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	70	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	70
75	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	75	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	75
80	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	80	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	80
85	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	85	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	85
90	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	90	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	90
95	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	95	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	95
	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9		16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	

TABLE FOR CONVERTING DIAMETERS (d) INTO STELLAR MAGNITUDES (m) BY THE FORMULA $m = a - b\sqrt{d}$. $b = 1.25$, $a = 13.0$ to 13.9 . $b = 1.25$, $a = 14.0$ to 14.9 .

d	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	d	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	d
4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	4
5	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	5	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	5
6	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	6	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	6
7	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	7	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	7
8	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	8	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	8
9	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	9	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	9
10	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	10
11	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	11	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	11
12	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	12	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	12
13	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	13	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	13
14	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	14	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	14
15	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	15	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	15
16	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	16	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	16
17	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	17	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	17
18	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	18	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	18
19	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	19	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	19
20	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	20	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	20
21	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	21	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	21
22	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	22	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	22
23	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	23	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	23
24	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	24	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	24
25	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	25	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	25
26	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	26	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	26
27	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	27	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	27
28	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	28	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	28
29	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	29	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	29
30	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	30	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	30
31	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	31	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	31
32	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	32	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	32
33	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	33	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	33
34	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	34	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	34
35	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	35	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	35
36	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	36	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	36
37	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	37	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	37
38	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	38	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	38
39	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	39	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	39
40	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	40	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	40
41	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	41	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	41
42	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	42	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	42
43	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	43	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	43
44	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	44	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	44
45	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	45	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	45
46	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	46	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	46
47	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	47	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	47
48	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	48	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	48
49	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	49	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	49
50	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	50	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	50
52	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	52	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	52
54	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	54	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	54
56	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	56	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	56
58	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	58	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	58
60	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	60	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	60
65	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	65	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	65
70	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	70	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	70
75	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	75	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	75
80	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	80	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	80
85	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	85	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	85
90	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	90	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	90
95	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	95	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	95
	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9		14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	

TABLE FOR CONVERTING DIAMETERS (d) INTO STELLAR MAGNITUDES (m) BY THE FORMULA $m = a - b\sqrt{d}$. $b = 1.25, \quad a = 15.0 \text{ to } 15.9.$ $b = 1.25, \quad a = 16.0 \text{ to } 16.9.$

d	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	d	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	d
4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	4
5	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	5	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	5
6	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	6	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	6
7	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	7	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	7
8	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	8	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	8
9	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	9	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	9
10	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	10	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	10
11	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	11
12	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	12	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12
13	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	13	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	13
14	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	14	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	14
15	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	15	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	15
16	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	16	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	16
17	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	17	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	17
18	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	18	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	18
19	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	19	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	19
20	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	20	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	20
21	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	21	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	21
22	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	22	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	22
23	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	23	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	23
24	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	24	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	24
25	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	25	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	25
26	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	26	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	26
27	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	27	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	27
28	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	28	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	28
29	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	29	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	29
30	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	30	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	30
31	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	31	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	31
32	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	32	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	32
33	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	33	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	33
34	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	34	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	34
35	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	35	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	35
36	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	36	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	36
37	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	37	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	37
38	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	38	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	38
39	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	39	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	39
40	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	40	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	40
41	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	41	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	41
42	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	42	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	42
43	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	43	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	43
44	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	44	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	44
45	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	45	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	45
46	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	46	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	46
47	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	47	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	47
48	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	48	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	48
49	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	49	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	49
50	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	50	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	50
52	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	52	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	52
54	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	54	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	54
56	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	56	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	56
58	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	58	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	58
60	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	60	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	60
65	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	65	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	65
70	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	70	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	70
75	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	75	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	75
80	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	80	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	80
85	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	85	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	85
90	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	90	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	90
95	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	95	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	95
	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9		16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	

TABLE FOR CONVERTING DIAMETERS (d) INTO STELLAR MAGNITUDES (m) BY THE FORMULA $m = a - b\sqrt{d}$. $b = 1.25, \quad a = 17.0 \text{ to } 17.9.$ $b = 1.36, \quad a = 14.0 \text{ to } 14.9.$

d	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	d	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	d
4	14.5	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3	15.4	4	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	4
5	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	15.0	15.1	5	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	5
6	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	6	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	6
7	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	7	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	7
8	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	8	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	8
9	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	9	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	9
10	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	10	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10
11	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	11	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	11
12	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	12	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	12
13	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	13
14	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	14	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	14
15	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	15	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	15
16	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	16	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	16
17	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	17	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	17
18	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	18	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	18
19	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	19	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	19
20	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	20	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	20
21	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	21	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	21
22	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	22	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	22
23	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	23	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	23
24	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	24	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	24
25	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	25	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	25
26	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	26	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	26
27	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	27	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	27
28	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	28	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	28
29	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	29	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	29
30	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	30	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	30
31	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	31	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	31
32	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	32	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	32
33	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	33	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	33
34	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	34	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	34
35	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	35	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	35
36	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	36	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	36
37	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	37	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	37
38	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	38	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	38
39	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	39	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	39
40	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	40	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	40
41	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	41	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	41
42	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	42	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	42
43	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	43	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	43
44	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	44	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	44
45	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	45	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	45
46	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	46	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	46
47	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	47	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	47
48	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	48	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	48
49	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	49	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	49
50	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	50	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	50
52	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	52	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	52
54	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	54	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	54
56	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	56	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	56
58	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	58	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	58
60	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	60	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	60
65	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	65	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	65
70	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	70	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	70
75	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	75	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	75
80	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	80	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	80
85	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	85	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	85
90	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	90	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	90
95	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	95	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	95
	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9		14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	

TABLE FOR CONVERTING DIAMETERS (d) INTO STELLAR MAGNITUDES (m) BY THE FORMULA $m = \alpha - b\sqrt{d}$.

$b = 1.36, \quad \alpha = 15.0 \text{ to } 15.9.$

$b = 1.36, \quad \alpha = 16.0 \text{ to } 16.9.$

d	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	d	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	d
4	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	4	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	4
5	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	6	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	6
7	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	7	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	7
8	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	8	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	8
9	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	9	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	9
10	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	10	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	10
11	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	11
12	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	12	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12
13	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	13	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	13
14	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	14	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	14
15	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	15	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	15
16	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	16	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	16
17	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	17	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	17
18	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	18	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	18
19	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	19	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	19
20	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	20	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	20
21	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	21	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	21
22	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	22	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	22
23	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	23	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	23
24	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	24	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	24
25	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	25	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	25
26	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	26	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	26
27	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	27	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	27
28	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	28	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	28
29	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	29	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	29
30	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	30	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	30
31	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	31	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	31
32	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	32	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	32
33	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	33	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	33
34	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	34	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	34
35	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	35	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	35
36	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	36	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	36
37	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	37	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	37
38	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	38	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	38
39	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	39	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	39
40	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	40	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	40
41	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	41	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	41
42	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	42	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	42
43	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	43	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	43
44	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	44	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	44
45	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	45	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	45
46	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	46	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	46
47	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	47	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	47
48	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	48	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	48
49	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	49	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	49
50	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	50	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	50
52	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	52	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	52
54	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	54	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	54
56	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	56	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	56
58	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	58	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	58
60	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	60	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	60
65	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	65	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	65
70	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	70	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	70
75	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	75	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	75
80	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	80	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	80
85	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	85	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	85
90	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	90	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	90
95	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	95	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	95
	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9		16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	

TABLE FOR CONVERTING DIAMETERS (d) INTO STELLAR MAGNITUDES (m) BY THE FORMULA $m = a - b\sqrt{d}$. $b = 1.36, \quad a = 17.0 \text{ to } 17.9.$ $b = 1.36, \quad a = 18.0 \text{ to } 18.9.$

d	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	d	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	d
4	14.3	14.4	14.5	14.6	14.7	14.8	14.9	15.0	15.1	15.2	4	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	4
5	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	5	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	5
6	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	6	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3	15.4	15.5	6
7	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	7	14.4	14.5	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3	7
8	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	8	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	15.0	15.1	8
9	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	9	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	9
10	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	10	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	10
11	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	11	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	11
12	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	12	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	12
13	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	13
14	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	14	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	14
15	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	15	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	15
16	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	16	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	16
17	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	17	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	17
18	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	18	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	18
19	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	19	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	19
20	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	20	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	20
21	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	21	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	21
22	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	22	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	22
23	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	23	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	23
24	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	24	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	24
25	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	25	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	25
26	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	26	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	26
27	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	27	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	27
28	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	28	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	28
29	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	29	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	29
30	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	30	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	30
31	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	31	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	31
32	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	32	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	32
33	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	33	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	33
34	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	34	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	34
35	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	35	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	35
36	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	36	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	36
37	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	37	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	37
38	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	38	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	38
39	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	39	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	39
40	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	40	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	40
41	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	41	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	41
42	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	42	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	42
43	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	43	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	43
44	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	44	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	44
45	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	45	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	45
46	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	46	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	46
47	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	47	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	47
48	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	48	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	48
49	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	49	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	49
50	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	50	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	50
52	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	52	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	52
54	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	54	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	54
56	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	56	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	56
58	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	58	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	58
60	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	60	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	60
65	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	65	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	65
70	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	70	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	70
75	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	75	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	75
80	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	80	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	80
85	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	85	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	85
90	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	90	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	90
95	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	95	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	95
	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9		18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	

OXFORD ASTROGRAPHIC CATALOGUE, 1900.

ZONE + 25°.

MEASURES OF
RECTANGULAR CO-ORDINATES AND DIAMETERS
OF STAR IMAGES ON PHOTOGRAPHS

TAKEN AT THE UNIVERSITY OBSERVATORY, OXFORD.

NOTES.

HEADINGS.—The *Plate Number* given at the head of each plate shows the order in the series taken with the Astrographic Equatorial. The approximate centre and the date of exposure are also given; other particulars will be found in a table in the Introduction.

The *Provisional Constants* are approximate only. They are derived from a comparison of the measures with the printed meridian places for 1875.0, given in the Catalogues of the *Astronomische Gesellschaft*, brought up to 1900.0; and are thus affected with errors due to proper motion, as well as magnitude-equation, etc. The reference stars are being re-observed at Greenwich, and more accurate formulæ will be derived in the future. Meanwhile the Provisional Constants allow of the deduction of places in R.A. and Dec. from the recorded measures, which should be accurate within 1" or 1".5. The necessary processes are: first form the "standard co-ordinates" ξ and η from the formulæ

$$\begin{aligned}\xi &= x - 13 - Ax - By - C \\ \eta &= y - 13 - Dx - Ey - F\end{aligned}$$

and then by means of the tables in the Introduction deduce the R.A. and Dec. from ξ and η .

The *Formula for Magnitudes* is derived from a discussion of the brighter stars on the plate, and may not be very near the truth for the fainter stars: see *Monthly Notices R.A.S.*, Vol. LXV. p. 755. The diameter d is expressed in units of 0".3, and is thus numerically one-half of the corresponding d for the Greenwich measures.

COLUMNS.—The *Reference Number* given in the first column is a purely arbitrary number for identification only. To avoid the inconvenience of altering all subsequent numbers when an accidentally omitted star is inserted, a new century is commenced for each plate; so that, for instance, the numbers from 849 to 900 are vacant. Since the same star occurs on two plates at least, it has at least two reference numbers; and with each number must be given also the Zone (or declination of plate centre) $+31^\circ$, $+30^\circ$, etc. This method of numeration has been rendered familiar by the *Bonn Durchmusterung*.

When a star occurs in one of the Catalogues of the *Astronomische Gesellschaft*, an asterisk is placed against the reference number; but these asterisks have been inserted from the list of stars for which standard co-ordinates were calculated, including some corrected places received in M.S. from the Cambridge Observatory and not printed in the *A.G.* Catalogue. As the actual plate centre differs a little from the theoretical, some stars are measured which would not theoretically be on the plate, and the asterisk may therefore not have been inserted. Generally speaking, if a star image is within 5' of the border of the plate, its occurrence in a Catalogue may have been overlooked; otherwise it has been specially checked.

The *second* column gives the measured diameter d expressed in units of 0".3. The number set down is the mean of two independent measures (see below).

NOTES—continued.

The *third* and *fourth* columns give the rectangular co-ordinates of the stars, measured with reference to *réseau* lines on each plate, which are numbered from 0 to 26 in direction of increasing R.A. and Dec. respectively, and are approximately 5^{mm} apart, representing $5'$ nearly. About 90 plates used in this volume had the *réseau* lines actually $5^{\text{mm}}\cdot04$ apart, as the focal length of the telescope is such that $1' = 1^{\text{mm}}\cdot008$ nearly, and the values of the Constants A and E are thus reduced from $\cdot008$ to about one-tenth of that value: all plates with numbers under 1159 have the *réseau* lines 5^{mm} apart.

The stars are arranged in the order of the x co-ordinate for each *réseau* interval or zone of $5'$ in y .

The origin of co-ordinates is a corner of the *réseau*, so that negative signs are avoided. The centre of each plate is at the intersection of the lines numbered 13. The co-ordinates are expressed in units of 1 *réseau* interval, and are given to 3 decimals, the unit in the last place representing $0''\cdot3$. The printed numbers are the means of two entirely independent measures, in reversed positions of the plate. Thus for the first star, the first measures were:—

$$d_1 = 14 \qquad x_1 = 19\cdot532 \qquad y_1 = 0\cdot400.$$

The plate was then rotated through 180° in its plane and measured again. The stars were referred to the opposite corner of the *réseau* and appeared in the reverse order, so that the first star became the last, and the figures were now:—

$$d_2 = 13 \qquad x_2 = 6\cdot467 \qquad y_2 = 25\cdot600.$$

The two values of d are directly comparable; the values of x_2 and y_2 were subtracted from $26\cdot000$ by another computer, obtaining

$$x_3 = 19\cdot533 \qquad y_3 = 0\cdot400;$$

and the means of d_1 and d_2 , x_1 and x_3 , y_1 and y_3 are then printed as

$$d = 14 \qquad x = 19\cdot533 \qquad y = 0\cdot400.$$

The differences $x_3 - x_1 = +\cdot001$ and $y_3 - y_1 = \cdot000$ are small. When such differences differ from the mean personality by more than $\cdot004$ (in some plates by $\cdot005$); the image is measured again.

R. A. 0 ^h 4 ^m																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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328	20	10°835	1°682	402	11	0°975	6°409	476	11	19°136	9°905	550	15	2°357	13°416	624	14	2°926	16°306
329	15	10°950	1°033	403	9	1°292	6°515	477	16	19°207	9°815	551	8	4°965	13°917	625	11	5°228	16°830
330	9	15°661	1°958	404	8	3°539	6°156	478	9	20°137	9°450	552	9	5°795	13°155	626	12	6°355	16°377
331	7	17°422	1°063	405	9	4°456	6°377	479	10	22°260	9°170	553	13	7°672	13°978	627	13	7°936	16°896
332	14	19°935	1°170	406	12	5°104	6°713	480	9	22°262	9°275	554	7	8°495	13°964	628	7	9°478	16°578
333*	26	20°926	1°823	407	8	6°177	6°779	481	12	23°693	9°230	555	11	9°923	13°129	629*	23	9°760	16°344
334	15	0°762	2°626	408	9	7°613	6°528	482	10	0°133	10°260	556	11	10°905	13°308	630	8	12°346	16°265
335	12	7°263	2°108	409	10	8°990	6°961	483	12	2°197	10°876	557	10	11°344	13°151	631	12	14°150	16°620
336	15	7°283	2°564	410	13	11°574	6°072	484	10	3°568	10°893	558	9	12°373	13°844	632	11	15°179	16°909
337	20	8°755	2°645	411	18	13°495	6°704	485	9	4°149	10°761	559	13	12°390	13°173	633	17	15°356	16°462
338	12	9°733	2°961	412	15	14°095	6°141	486	21	4°805	10°529	560	11	15°612	13°487	634	13	16°882	16°448
339	14	12°485	2°893	413	11	15°832	6°720	487	9	4°972	10°776	561	8	16°025	13°105	635*	15	17°093	16°122
340*	28	13°080	2°034	414	6	16°517	6°871	488	12	6°350	10°419	562	16	16°250	13°215	636	6	17°154	16°286
341	16	13°833	2°114	415	13	19°050	6°450	489	12	7°065	10°405	563	9	17°067	13°186	637	17	17°825	16°320
342	17	17°605	2°926	416	11	22°226	6°060	490*	37	7°660	10°916	564	9	17°170	13°734	638	7	18°346	16°775
343*	25	19°360	2°941	417	12	23°949	6°482	491	20	8°225	10°321	565	9	17°850	13°250	639	13	19°250	16°449
344	12	20°634	2°802	418	7	24°615	6°848	492	5	8°664	10°280	566	10	18°356	13°699	640	10	19°980	16°872
345	18	20°881	2°928	419	5	24°848	6°315	493	8	10°001	10°268	567	12	19°875	13°509	641	6	21°540	16°540
346*	39	21°283	2°088	420	6	2°743	7°537	494	10	11°738	10°224	568	10	20°126	13°970	642	20	21°767	16°866
347*	26	24°556	2°370	421	9	3°157	7°594	495	13	12°085	10°382	569	11	20°261	13°900	643	13	23°595	16°409
348	11	25°503	2°537	422	10	3°966	7°578	496	7	13°556	10°649	570	10	20°919	13°415	644	10	23°881	16°804
349	13	0°459	3°865	423	16	4°609	7°513	497	14	14°816	10°421	571	7	21°665	13°347	645	9	0°275	17°180
350	18	3°473	3°119	424	13	4°815	7°746	498	16	16°215	10°617	572	8	21°739	13°625	646	12	1°199	17°082
351	19	5°811	3°691	425	8	5°898	7°879	499	16	18°914	10°345	573	13	23°127	13°633	647	13	5°086	17°179
352	10	11°705	3°790	426	13	8°552	7°893	500	10	21°483	10°630	574	17	23°585	13°416	648	9	5°427	17°616
353	10	13°439	3°239	427	8	9°850	7°150	501	10	22°645	10°184	575	10	0°308	14°082	649	6	8°443	17°296
354	22	14°887	3°818	428	15	19°316	7°033	502	13	22°841	10°870	576	7	0°490	14°941	650	5	8°684	17°700
355	12	17°549	3°324	429	13	20°240	7°157	503*	38	23°775	10°227	577	6	4°174	14°517	651	10	12°716	17°367
356	10	18°266	3°799	430	14	21°069	7°794	504	15	1°964	11°368	578	13	4°347	14°463	652	14	13°123	17°770
357*	24	18°871	3°282	431	17	21°970	7°830	505	9	2°155	11°477	579*	28	4°351	14°424	653	12	14°784	17°871
358	11	21°213	3°906	432	9	22°829	7°951	506	13	2°405	11°949	580	9	5°374	14°256	654	13	15°133	17°960
359	14	22°406	3°173	433	8	25°309	7°029	507	15	5°175	11°894	581	10	5°389	14°553	655	19	15°620	17°945
360	16	22°769	3°953	434	14	0°050	8°165	508	12	7°792	11°845	582	7	6°228	14°595	656	13	15°625	17°479
361	9	24°184	3°773	435	21	1°445	8°039	509	13	8°825	11°803	583	11	6°605	14°225	657	15	16°374	17°469
362	13	25°709	3°188	436	14	1°773	8°186	510	8	9°443	11°510	584	10	7°395	14°042	658	8	18°035	17°608
363	17	25°756	3°905	437	13	1°889	8°471	511	7	9°488	11°488	585	7	9°166	14°765	659	5	18°354	17°872
364	11	1°345	4°265	438	15	3°174	8°525	512	9	9°905	11°633	586	11	11°343	14°118	660	7	18°474	17°920
365	12	2°520	4°406	439	10	3°612	8°915	513	15	10°190	11°500	587	8	12°732	14°959	661	8	18°665	17°538
366	10	5°476	4°285	440	12	3°910	8°116	514	8	12°407	11°115	588	13	16°826	14°646	662	7	19°654	17°725
367	11	8°817	4°434	441	16	4°747	8°319	515	7	15°133	11°012	589	10	17°690	14°078	663	11	20°675	17°740
368	10	8°975	4°268	442	11	6°174	8°245	516	8	15°909	11°296	590	16	17°943	14°824	664	9	22°594	17°930
369	15	9°290	4°833	443	6	7°438	8°845	517	14	16°882	11°852	591	12	18°800	14°312	665	12	23°335	17°819
370	13	13°118	4°485	444	20	7°464	8°547	518	5	17°430	11°080	592	8	19°990	14°186	666	11	24°044	17°816
371	17	14°760	4°380	445	10	7°945	8°205	519	6	17°516	11°585	593	13	20°127	14°335	667	10	24°112	17°077
372	10	15°672	4°600	446	8	8°154	8°855	520	13	17°840	11°566	594	9	21°603	14°991	668	10	24°269	17°910
373	11	17°123	4°934	447	11	9°787	8°446	521	11	18°789	11°020	595	8	21°623	14°356	669	11	24°474	17°284
374	8	21°944	4°026	448	12	9°830	8°100	522	12	19°097	11°233	596	12	22°554	14°219	670	10	24°627	17°473
375	15	23°030	4°996	449	11	12°266	8°573	523	13	23°063	11°375	597	11	23°245	14°046	671	8	24°800	17°186
376	18	25°553	4°722	450	10	16°505	8°986	524	7	23°488	11°176	598	8	23°314	14°850	672	6	25°650	17°369
377	15	3°310	5°150	451	11	16°519	8°601	525	11	24°011	11°056	599	6	23°422	14°710	673	12	1°676	18°500
378	6	5°840	5°663	452	9	16°959	8°744	526	10	24°163	11°199	600	10	23°885	14°125	674	11	1°785	18°140
379	8	8°322	5°206	453	9	17°601	8°167	527	11	25°179	11°551	601*	30	24°112	14°405	675	11	2°170	18°934
380	8	9°100	5°031	454	10	18°223	8°660	528	10	25°805	11°058	602	10	1°400	15°729	676	12	2°527	18°176
381	8	10°150	5°116	455	20	18°796	8°674	529	10	1°435	12°125	603	12	3°905	15°162	677	6	4°934	18°353
382	10	11°901	5°635	456	13	19°362	8°658	530	9	2°177	12°168	604	13	3°976	15°115	678	12	12°737	18°473
383	9	11°950	5°330	457	11	20°903	8°020	531*	9	3°753	12°862	605	7	5°916	15°877	679	10	13°015	18°740
384	10	12°119	5°574	458	12	23°580	8°119	532*	28	5°429	12°223	606	6	7°716	15°465	680	8	13°486	18°390
385	12	13°021	5°326	459	8	25°353	8°385	533	10	5°625	12°190	607	14	10°924	15°707	681	9	14°393	18°805
386	13	13°026	5°164	460*	21	1°037	9°606	534	9	5°860	12°735	608	9	12°966	15°476	682	8	17°030	18°138
387	21	13°619	5°534	461	14	1°481	9°980	535	15	9°775	12°181	609	8	12°989	15°373	683*	22	18°698	18°507
388	9	13°657	5°010	462	9	1°906	9°363	536*	24	13°806	12°508	610	13	15°455	15°106	684	12	20°394	18°672
389	6	15°140	5°609	463	11	5°233	9°749	537	16	13°870	12°776	611	11	15°800	15°488	685	16	21°040	18°710
390	15	16°964	5°254	464	17	6°367	9°464	538	23	14°225	12°246	612	9	15°843	15°310	686	9	21°276	18°947
391	9	17°472	5°427	465	12	6°848	9°032	539	12	15°863	12°905	613*	18	17°054	15°213	687	14	23°055	18°421
392	12	18°645	5°504	466	13	7°455	9°007	540	8	18°822	12°378	614*	20	17°067	15°193	688	10	23°470	18°461
393	12	19°874	5°982	467	20	9°384	9°104	541	13	20°067	12°964	615	12	18°519	15°450	689	13	23°769	18°425
394	7	20°358	5°170	468	12	10°25													

698	14	9.875	19.072	772	14	14.458	22.797	846	9	18.044	25.006	947	21	16.829	2.422	1021	10	15.126	5.506
699	15	10.137	19.621	773	9	14.639	22.850	847	12	19.362	25.614	948	10	19.978	2.147	1022	6	15.555	5.100
700*	29	10.699	19.541	774	10	15.103	22.249	848	12	22.645	25.429	949	5	20.884	2.834	1023	11	17.451	5.075
701	7	10.931	19.768	775	9	15.815	22.455	849	13	24.444	25.993	950	8	21.444	2.944	1024	10	17.817	5.369
702	8	12.424	19.009	776	12	16.198	22.763					951	5	22.805	2.291	1025	5	19.569	5.047
703	15	12.943	19.671	777*	18	17.491	22.363					952	7	23.167	2.843	1026*	23	19.991	5.709
704	8	14.565	19.593	778	10	18.677	22.742					953	15	23.985	2.502	1027	5	20.389	5.364
705	8	14.630	19.150	779	8	18.946	22.948					954	8	24.495	2.393	1028*	31	21.672	5.339
706	9	14.963	19.215	780	9	19.964	22.374					955	18	24.741	2.904	1029	9	24.192	5.410
707	21	16.510	19.450	781	8	20.125	22.122					956	11	0.410	3.196	1030	10	25.024	5.040
708	39	16.523	19.913	782	7	20.225	22.959					957	15	0.782	3.974	1031	10	0.255	6.085
709*	42	16.540	19.919	783	14	22.470	22.580					958	10	2.195	3.785	1032	11	1.983	6.493
710	13	18.026	19.937	784	12	22.669	22.953					959	14	3.717	3.185	1033	9	2.884	6.319
711	15	18.165	19.910	785	11	23.432	22.062					960	18	3.767	3.900	1034	5	3.570	6.818
712	12	18.588	19.239	786	8	23.614	22.696					961	12	4.075	3.300	1035	7	5.076	6.150
713	8	21.615	19.366	787	13	24.346	22.175					962	11	4.554	3.903	1036	8	6.165	6.923
714	10	24.243	19.833	788	6	24.730	22.036					963	12	4.906	3.473	1037	13	8.045	6.005
715	10	24.438	19.062	789	12	25.176	22.126					964	12	4.973	3.204	1038	7	8.383	6.945
716	11	24.727	19.467	790	6	25.830	22.030					965*	27	8.014	3.900	1039	8	10.555	6.919
717	9	25.090	19.975	791	6	1.144	23.937					966	12	9.275	3.526	1040	14	10.996	6.873
718	7	25.557	19.279	792	11	2.760	23.627					967	9	9.333	3.223	1041	5	11.835	6.190
719	12	0.234	20.683	793	14	5.551	23.623					968	10	9.393	3.800	1042	7	12.441	6.677
720	16	0.276	20.940	794	11	5.935	23.748					969	9	9.415	3.440	1043	21	13.939	6.709
721	13	3.462	20.383	795	14	7.672	23.665					970	11	9.700	3.181	1044	7	14.675	6.702
722	17	6.182	20.685	796	13	9.125	23.399					971	12	11.109	3.274	1045	6	14.974	6.624
723	10	8.173	20.654	797	11	9.199	23.469					972	10	15.317	3.400	1046*	52	17.988	6.685
724	12	9.375	20.339	798*	23	10.197	23.322					973	12	15.365	3.196	1047	5	19.422	6.554
725	15	9.817	20.688	799	7	11.476	23.920					974	6	19.464	3.744	1048	12	21.021	6.379
726	9	10.289	20.874	800	12	14.277	23.685					975	10	25.755	3.175	1049	20	24.853	6.522
727	7	11.898	20.094	801	17	14.367	23.940					976	6	1.812	4.896	1050	16	0.016	7.859
728	8	12.288	20.437	802	8	16.163	23.214					977	7	2.716	4.583	1051	8	0.875	7.973
729	10	12.499	20.619	803	7	17.050	23.549					978	20	3.572	4.717	1052	15	4.161	7.636
730	7	12.823	20.595	804	9	17.597	23.075					979	14	4.804	4.550	1053	7	6.054	7.807
731	7	13.405	20.832	805*	38	18.859	23.710					980	16	5.210	4.542	1054	12	9.404	7.193
732	8	14.436	20.751	806	14	24.455	23.129					981	13	5.493	4.352	1055	12	9.485	7.268
733	12	16.187	20.656	807	10	24.513	23.193					982	19	5.656	4.942	1056	14	10.742	7.395
734	11	17.435	20.760	808	12	0.180	24.836					983	17	7.671	4.459	1057	13	14.107	7.904
735	12	17.841	20.750	809	16	0.927	24.455					984	14	8.056	4.274	1058	13	15.025	7.523
736	14	18.060	20.088	810	13	1.790	24.993					985	15	11.730	4.275	1059	16	15.324	7.359
737	20	22.592	20.892	811	8	2.052	24.928					986	12	12.324	4.971	1060	8	16.245	7.495
738	12	25.993	20.065	812	10	2.959	24.410					987	16	13.215	4.774	1061	9	17.585	7.964
739	11	0.530	21.365	813	12	4.059	24.656					988	6	15.283	4.273	1062	12	18.043	7.452
740	13	2.688	21.025	814	8	5.756	24.857					989	11	15.696	4.806	1063*	29	19.737	7.846
741	11	3.027	21.771	815	12	7.765	24.386					990	8	16.704	4.177	1064	16	21.960	7.823
742*	47	4.697	21.406	816	10	8.016	24.755					991	16	16.726	4.983	1065	10	23.624	7.697
743*	27	5.204	21.568	817	8	8.846	24.946					992	12	19.429	4.666	1066	12	1.633	8.134
744	10	5.513	21.823	818	11	12.821	24.452					993	14	20.584	4.968	1067	10	3.404	8.385
745	15	5.536	21.396	819	8	13.295	24.005					994	8	22.315	4.476	1068	9	5.760	8.014
746	10	8.227	21.715	820	8	13.480	24.362					995	9	22.707	4.837	1069	16	6.101	8.855
747	10	9.130	21.388	821	8	14.160	24.161					996	5	23.344	4.217	1070	8	6.194	8.432
748	7	9.940	21.746	822	14	14.311	24.351					997	6	23.658	4.734	1071	9	7.339	8.348
749	8	10.547	21.749	823*	20	14.445	24.846					998*	40	24.740	4.819	1072	8	7.665	8.655
750	10	10.796	21.212	824	11	14.675	24.772					999	14	1.053	5.015	1073*	23	8.502	8.121
751	12	11.993	21.872	825	12	17.664	24.113					1000*	29	1.509	5.728	1074	9	9.919	8.457
752	10	12.388	21.746	826	7	18.705	24.320					1001	10	2.737	5.048	1075	11	11.007	8.299
753	12	13.303	21.891	827*	33	22.606	24.427					1002	11	3.364	5.710	1076	7	11.238	8.170
754	11	14.109	21.735	828	16	24.420	24.576					1003	18	3.425	5.132	1077	10	14.505	8.763
755	14	15.355	21.041	829	12	24.451	24.662					1004	14	3.655	5.325	1078	10	15.505	8.475
756	10	16.308	21.657	830	12	0.252	25.825					1005	15	4.143	5.559	1079	7	17.185	8.940
757	10	16.376	21.240	831	10	3.846	25.650					1006	11	4.437	5.382	1080	6	17.645	8.585
758	12	17.047	21.187	832	7	4.584	25.755					1007	7	4.799	5.610	1081	7	17.826	8.749
759	16	22.846	21.584	833	12	5.766	25.091					1008	9	5.376	5.510	1082	11	19.199	8.371
760	12	22.970	21.333	834	9	6.778	25.668					1009	8	6.815	5.019	1083	9	21.602	8.857
761	9	25.157	21.910	835	9	6.954	25.942					1010	13	7.167	5.262	1084	14	21.712	8.221
762	14	25.196	21.016	836	11	8.115	25.065					1011	10	10.190	5.354	1085	13	21.754	8.506
763	13	25.423	21.394	837	9	8.413	25.200					1012	9	10.476	5.436	1086	13	22.467	8.806
764*	15	1.679	22.382	838	10	9.170	25.166					1013	7	10.550	5.014	1087	12	23.246	8.905
765*	20	2.182	22.433	839	8	11.263	25.545					1014	13	11.393	5.213	1088	9	0.320	9.197
766	19	3.373	22.191	840	7	11.352	25.117					1015	9	12.292	5.675	1089	12	1.752	9.243
767	11	4.160	22.025	841	7	12.755	25.596					1016	8	12.318	5.238	1090	8	1.943	9.126
768	10	4.463	22.628	842	8	12.783	25.876					1017	9	12.452	5.047	1091	12	4.174	9.257
769	8	5.674	22.381	843	13	13.302	25.803					1018	10	13.356	5.555	1092*	26	4.191	9.459
770*	24	9.045	22.969	844	16	13.754	25.609					1019	7	13.861	5.824	1093	11	6.472	9.764
771	7</																		

1095	5	7.670	9.360	1169*	22	2.116	12.485	1243	12	17.883	14.724	1317	10	20.286	17.783	1391	14	20.265	21.680
1096	15	7.775	9.444	1170	14	2.196	12.463	1244*	17	19.147	14.225	1318	8	21.026	17.111	1392	12	20.370	21.448
1097	8	8.770	9.800	1171	16	3.827	12.795	1245*	24	21.395	14.856	1319	10	22.893	17.194	1393	6	21.648	21.608
1098	7	9.556	9.186	1172	14	4.045	12.054	1246	11	24.795	14.274	1320	7	23.257	17.926	1394	8	24.609	21.006
1099	12	9.894	9.774	1173	15	6.568	12.235	1247	13	1.881	15.150	1321	19	23.467	17.780	1395	6	24.744	21.960
1100	13	9.961	9.885	1174	7	7.520	12.077	1248	12	3.430	15.277	1322	10	24.095	17.131	1396	12	0.645	22.606
1101	10	13.182	9.527	1175	9	8.403	12.524	1249	15	4.351	15.102	1323	8	24.405	17.661	1397	10	0.844	22.975
1102	8	13.600	9.988	1176	6	8.635	12.095	1250	6	5.329	15.629	1324	12	25.457	17.916	1398	9	1.605	22.079
1103	13	13.656	9.486	1177	7	8.845	12.334	1251	13	11.061	15.276	1325	14	1.193	18.442	1399	7	1.790	22.710
1104*	21	13.842	9.795	1178	8	9.034	12.917	1252	17	12.194	15.756	1326	10	1.611	18.477	1400	13	2.519	22.184
1105	13	14.370	9.269	1179	12	9.666	12.225	1253	9	13.654	15.477	1327	12	1.909	18.440	1401	12	3.347	22.127
1106	18	14.513	9.270	1180	10	9.852	12.539	1254	14	13.825	15.994	1328	11	2.088	18.213	1402	5	3.567	22.744
1107	20	14.772	9.429	1181	7	10.382	12.883	1255	14	14.961	15.035	1329	10	6.135	18.557	1403	8	5.284	22.023
1108	6	15.674	9.096	1182	6	10.948	12.588	1256	7	15.146	15.070	1330	9	9.654	18.327	1404	18	5.620	22.657
1109	23	16.868	9.742	1183	11	13.742	12.283	1257	12	15.199	15.228	1331	8	9.922	18.396	1405	7	5.690	22.323
1110	14	17.024	9.059	1184	11	15.705	12.661	1258	20	16.398	15.401	1332	11	10.762	18.163	1406	11	5.964	22.310
1111	9	17.667	9.595	1185	8	15.958	12.683	1259	12	16.427	15.640	1333	14	11.787	18.524	1407	18	7.923	22.500
1112	11	17.715	9.417	1186	5	16.351	12.246	1260	10	16.550	15.817	1334	8	12.130	18.265	1408	11	8.744	22.453
1113	7	18.336	9.196	1187	15	21.180	12.264	1261	9	17.487	15.692	1335	11	15.805	18.408	1409	9	10.432	22.146
1114	9	18.406	9.755	1188	8	21.904	12.165	1262	7	18.506	15.497	1336	16	17.611	18.342	1410	17	12.027	22.109
1115	5	19.750	9.474	1189	9	22.688	12.116	1263	20	19.464	15.563	1337	11	21.150	18.135	1411	13	14.340	22.369
1116	6	20.389	9.653	1190	6	23.260	12.864	1264	6	21.055	15.374	1338	6	21.820	18.689	1412	7	15.797	22.324
1117	14	20.470	9.495	1191	12	1.224	13.650	1265*	21	22.130	15.840	1339	6	24.427	18.167	1413	10	16.674	22.143
1118	6	21.048	9.154	1192	15	1.679	13.430	1266*	21	23.267	15.787	1340	7	25.468	18.634	1414	6	22.449	22.050
1119	7	22.114	9.376	1193	11	4.968	13.802	1267	8	23.464	15.786	1341	10	2.394	19.844	1415	9	25.576	22.627
1120	6	22.200	9.092	1194	10	5.522	13.828	1268	12	25.322	15.911	1342	11	2.583	19.067	1416	14	2.637	23.136
1121	8	23.144	9.680	1195	16	5.545	13.523	1269	14	25.474	15.735	1343	12	2.877	19.471	1417	9	2.695	23.199
1122	11	24.249	9.258	1196	11	5.678	13.259	1270	13	1.716	16.424	1344	9	3.242	19.978	1418	11	5.826	23.694
1123	8	0.715	10.206	1197*	21	5.798	13.600	1271	9	2.006	16.813	1345	18	4.519	19.319	1419	13	7.653	23.853
1124	12	0.913	10.890	1198	16	6.526	13.516	1272	13	4.648	16.610	1346	6	5.266	19.497	1420	9	8.110	23.043
1125*	33	1.843	10.240	1199	11	7.625	13.563	1273	14	4.921	16.540	1347	10	5.397	19.996	1421	5	9.618	23.646
1126	8	4.565	10.904	1200	8	8.862	13.363	1274	13	5.856	16.697	1348	18	7.858	19.842	1422*	33	10.606	23.020
1127	11	4.665	10.561	1201	8	8.984	13.700	1275	10	6.166	16.127	1349	12	12.726	19.803	1423	12	11.231	23.040
1128	11	8.203	10.021	1202	7	11.096	13.843	1276	9	8.632	16.238	1350	19	13.558	19.863	1424	20	12.583	23.536
1129	10	9.770	10.126	1203	10	11.494	13.862	1277	7	9.063	16.830	1351	8	16.624	19.478	1425	10	13.480	23.950
1130	10	11.452	10.576	1204	12	12.766	13.751	1278	16	10.010	16.820	1352	17	17.036	19.154	1426	14	14.525	23.370
1131	15	12.123	10.288	1205	6	14.427	13.485	1279	11	10.064	16.829	1353	13	21.712	19.693	1427	15	15.508	23.302
1132	6	12.652	10.310	1206	5	15.084	13.928	1280	14	10.199	16.307	1354	17	22.060	19.874	1428	14	16.095	23.300
1133	9	13.800	10.263	1207	8	16.380	13.611	1281	8	10.933	16.790	1355	17	22.771	19.939	1429	9	16.993	23.563
1134	12	13.856	10.611	1208	11	16.595	13.144	1282	10	11.629	16.104	1356	9	23.550	19.163	1430	10	17.277	23.158
1135	10	14.532	10.676	1209	9	17.084	13.052	1283	13	11.711	16.176	1357	12	23.817	19.852	1431	15	17.806	23.092
1136	7	14.954	10.652	1210	14	17.661	13.074	1284	16	12.392	16.225	1358	9	24.833	19.872	1432*	22	19.106	23.270
1137	6	16.059	10.657	1211*	40	18.353	13.178	1285	6	13.769	16.328	1359	10	24.923	19.395	1433	5	21.105	23.774
1138	8	16.559	10.860	1212*	20	18.545	13.939	1286	10	14.826	16.850	1360	6	25.638	19.190	1434	14	24.863	23.306
1139	9	18.677	10.728	1213	12	19.920	13.775	1287*	30	15.645	16.704	1361	20	0.752	20.916	1435*	33	0.798	24.450
1140	11	19.827	10.081	1214	9	20.595	13.570	1288	11	16.580	16.684	1362	10	4.147	20.058	1436	15	2.613	24.585
1141*	22	20.267	10.463	1215	16	20.650	13.080	1289	13	18.569	16.507	1363	12	6.229	20.901	1437	12	2.647	24.670
1142	20	20.445	10.487	1216	18	21.050	13.027	1290	9	19.651	16.485	1364	18	8.269	20.977	1438	11	5.179	24.930
1143	15	22.494	10.596	1217	7	23.538	13.343	1291	10	20.027	16.358	1365	7	12.206	20.755	1439	11	5.853	24.753
1144	5	23.156	10.484	1218	13	25.585	13.012	1292	13	21.166	16.757	1366	7	17.803	20.200	1440	6	6.231	24.152
1145*	21	23.367	10.765	1219	11	0.655	14.242	1293	15	21.254	16.423	1367	18	18.925	20.198	1441	7	7.365	24.156
1146	12	1.140	11.395	1220	10	1.344	14.064	1294	7	22.050	16.919	1368	16	19.754	20.227	1442	21	7.481	24.371
1147	11	2.085	11.068	1221	7	1.421	14.872	1295	9	24.179	16.536	1369	12	22.200	20.725	1443	12	7.488	24.745
1148	9	2.238	11.209	1222	9	1.988	14.135	1296	13	1.468	17.837	1370	10	23.507	20.204	1444	7	7.950	24.526
1149	7	2.340	11.166	1223*	27	2.215	14.413	1297	12	2.177	17.826	1371	8	24.441	20.450	1445	5	9.885	24.904
1150	10	3.256	11.554	1224	13	4.269	14.769	1298	11	2.243	17.086	1372	19	24.870	20.439	1446	8	14.176	24.186
1151	9	3.880	11.055	1225	14	4.599	14.265	1299	10	2.403	17.918	1373	15	1.011	21.605	1447	11	15.200	24.944
1152	7	5.658	11.444	1226	12	5.398	14.022	1300	11	2.603	17.294	1374	11	1.132	21.358	1448	5	16.270	24.411
1153	8	5.787	11.389	1227	8	5.866	14.750	1301	12	2.761	17.481	1375	10	3.330	21.910	1449	5	18.158	24.186
1154	7	8.297	11.350	1228	13	6.257	14.931	1302	8	2.930	17.189	1376	13	3.359	21.016	1450	7	18.981	24.225
1155	12	12.800	11.655	1229*	19	6.717	14.923	1303	12	4.451	17.276	1377	13	3.589	21.392	1451*	23	19.116	24.643
1156	14	13.615	11.246	1230	12	6.877	14.259	1304	12	4.913	17.484	1378	7	5.932	21.565	1452	14	19.881	24.580
1157	8	15.194	11.768	1231*	23	6.985	14.094	1305	14	4.916	17.661	1379	9	6.292	21.337	1453	12	19.884	24.967
1158	9	16.038	11.448	1232	10	7.177	14.395	1306	11	5.029	17.636	1380	8	8.583	21.711	1454	11	21.297	24.773
1159	8	17.094	11.834																

1465	8	18.403	25.346	1549	5	20.240	1.976	1623	11	15.880	5.823	1697	15	9.764	9.254	1771	8	10.129	13.465
1466	9	20.751	25.058	1550	6	20.928	1.768	1624	6	15.944	5.280	1698	19	13.970	9.624	1772*	23	10.270	13.802
1467	13	25.136	25.594	1551	12	21.667	1.135	1625	20	18.458	5.327	1699	6	14.525	9.736	1773	11	12.593	13.560
				1552	5	22.756	1.733	1626	5	18.578	5.843	1700	10	14.650	9.486	1774	15	14.123	13.696
				1553	7	22.859	1.691	1627	13	21.690	5.530	1701	9	18.223	9.538	1775	12	15.985	13.492
				1554	5	1.135	2.794	1628	10	22.016	5.811	1702	12	19.611	9.444	1776	15	17.341	13.600
				1555	15	1.948	2.439	1629	7	23.434	5.841	1703	6	19.655	9.107	1777	16	18.716	13.312
				1556	6	2.455	2.324	1630	5	24.320	5.187	1704	9	24.147	9.474	1778	10	19.440	13.367
				1557	5	2.510	2.300	1631	15	24.498	5.037	1705	10	24.926	9.548	1779*	21	19.920	13.342
				1558	18	2.714	2.829	1632	9	24.867	5.783	1706	14	0.575	10.557	1780	18	21.256	13.240
				1559	12	6.468	2.910	1633	6	24.965	5.655	1707*	20	1.450	10.710	1781	11	22.886	13.185
				1560	9	8.643	2.639	1634	19	2.875	6.448	1708	10	4.600	10.772	1782	11	24.332	13.490
				1561*	21	11.537	2.939	1635	9	5.670	6.007	1709	8	4.796	10.564	1783	10	2.931	14.196
				1562	12	12.318	2.853	1636	10	6.589	6.584	1710	7	5.405	10.944	1784	9	4.430	14.436
				1563	7	12.637	2.700	1637	10	7.256	6.900	1711	13	8.086	10.615	1785	20	5.113	14.662
				1564*	23	15.844	2.493	1638	10	8.517	6.517	1712	13	8.375	10.301	1786	14	5.517	14.195
				1565	10	17.946	2.675	1639	10	9.140	6.533	1713	9	8.377	10.500	1787	13	5.994	14.276
				1566	12	21.215	2.982	1640	13	9.326	6.435	1714	10	8.421	10.959	1788	8	6.642	14.755
				1567	12	22.378	2.173	1641	9	10.079	6.943	1715	15	9.369	10.198	1789*	25	9.183	14.672
				1568	6	23.060	2.811	1642	11	10.134	6.867	1716	9	10.630	10.307	1790	13	12.342	14.710
				1569	13	24.002	2.912	1643	12	11.451	6.266	1717	14	10.644	10.863	1791	14	14.336	14.600
				1570	20	25.485	2.567	1644	8	11.806	6.064	1718	7	13.765	10.100	1792	8	14.473	14.690
				1571	11	3.726	3.085	1645	5	16.804	6.174	1719	6	14.200	10.744	1793	9	14.820	14.297
				1572	10	6.891	3.209	1646	8	17.126	6.766	1720	21	14.584	10.382	1794	11	18.201	14.276
				1573	12	7.395	3.160	1647	9	17.646	6.945	1721	8	15.103	10.429	1795	10	18.688	14.015
				1574	12	7.997	3.670	1648	11	19.216	6.055	1722	19	17.074	10.890	1796*	21	19.765	14.156
				1575	10	9.698	3.524	1649	12	20.835	6.760	1723	7	17.166	10.002	1797	10	21.599	14.979
				1576	13	9.866	3.565	1650	6	21.975	6.267	1724	11	18.804	10.479	1798	17	23.275	14.782
				1577	10	10.955	3.467	1651	15	22.334	6.637	1725	16	19.347	10.637	1799	6	23.617	14.367
				1578	16	11.606	3.694	1652	11	24.999	6.450	1726	16	0.923	11.827	1800*	19	0.285	15.805
				1579	10	17.615	3.560	1653	10	1.660	7.641	1727	7	1.680	11.115	1801*	20	1.424	15.734
				1580	10	18.885	3.090	1654	8	2.777	7.450	1728	19	2.505	11.445	1802	12	3.482	15.830
				1581	13	19.724	3.395	1655	8	4.149	7.394	1729	15	5.256	11.384	1803	14	3.628	15.650
				1582	18	23.257	3.572	1656	13	4.644	7.667	1730	21	5.566	11.765	1804	10	4.156	15.966
				1583	5	23.480	3.835	1657	5	5.240	7.626	1731	10	5.849	11.717	1805	14	4.265	15.687
				1584	5	23.657	3.677	1658	7	5.280	7.904	1732	12	6.070	11.224	1806	18	5.956	15.087
				1585	11	23.736	3.297	1659	7	6.042	7.431	1733	10	6.788	11.190	1807	10	7.400	15.950
				1586*	37	2.737	4.746	1660	7	7.168	7.496	1734	9	6.996	11.395	1808	10	7.966	15.245
				1587	10	3.024	4.965	1661	6	8.387	7.660	1735	15	7.548	11.847	1809*	24	10.970	15.380
				1588	13	4.783	4.935	1662	9	9.773	7.142	1736	9	9.114	11.806	1810	6	14.950	15.464
				1589	10	6.200	4.530	1663	10	10.260	7.565	1737	6	11.777	11.496	1811	8	15.209	15.940
				1590	17	6.573	4.865	1664	11	14.534	7.302	1738	12	11.903	11.889	1812	14	16.535	15.374
				1591	16	9.406	4.394	1665	12	14.692	7.969	1739	6	12.301	11.754	1813	10	17.905	15.446
				1592	18	11.309	4.227	1666	12	15.837	7.864	1740	12	12.570	11.232	1814	13	18.011	15.250
				1593	12	12.000	4.027	1667	7	18.196	7.533	1741	23	12.699	11.341	1815	12	18.900	15.055
				1594	6	12.460	4.807	1668*	34	18.867	7.467	1742	11	13.318	11.279	1816	18	19.645	15.209
				1595	16	13.137	4.331	1669	7	18.951	7.132	1743	9	13.652	11.645	1817	9	20.141	15.057
				1596	6	13.278	4.345	1670	5	20.466	7.843	1744	14	14.513	11.510	1818	14	21.258	15.628
				1597	6	14.344	4.699	1671	10	24.157	7.365	1745*	35	14.629	11.590	1819	14	22.261	15.880
				1598	11	14.857	4.684	1672	19	24.276	7.169	1746	8	15.133	11.808	1820	8	22.967	15.392
				1599	15	15.436	4.857	1673	11	0.522	8.766	1747	13	15.346	11.010	1821	11	23.483	15.710
				1600	13	15.809	4.033	1674	7	3.041	8.089	1748	20	16.845	11.123	1822	18	24.816	15.523
				1601	8	16.725	4.649	1675	10	6.575	8.781	1749	16	20.506	11.974	1823	9	25.778	15.544
				1602	19	17.787	4.985	1676	15	9.829	8.658	1750	6	21.430	11.811	1824	7	0.220	16.882
				1603	17	18.123	4.794	1677	13	10.452	8.470	1751	14	22.904	11.813	1825	8	2.349	16.470
				1604	10	18.613	4.685	1678	13	10.566	8.540	1752	13	24.196	11.860	1826	9	4.164	16.002
				1605	14	19.413	4.540	1679	9	10.619	8.726	1753	13	3.702	12.925	1827	14	9.322	16.972
				1606	12	23.251	4.294	1680	9	11.067	8.070	1754	14	7.437	12.905	1828*	24	10.292	16.134
				1607	16	23.542	4.115	1681	5	11.373	8.604	1755	14	8.400	12.310	1829	7	10.299	16.270
				1608	10	24.077	4.990	1682	9	14.195	8.066	1756	10	8.501	12.300	1830	10	11.846	16.857
				1609	13	24.172	4.120	1683	21	14.495	8.895	1757	17	9.036	12.329	1831	7	12.207	16.281
				1610	15	24.683	4.614	1684	10	14.919	8.223	1758	7	10.375	12.010	1832	9	13.060	16.817
				1611	9	2.196	5.345	1685	9	14.976	8.937	1759	12	11.609	12.098	1833*	17	16.194	16.516
				1612	10	5.453	5.058	1686	12	15.074	8.554	1760*	21	13.710	12.720	1834	14	16.282	16.565
				1613	13	5.494	5.428	1687	13	15.586	8.110	1761	9	13.870	12.638	1835	14	18.422	16.633
				1614	10	5.783	5.277	1688	15	18.865	8.933	1762	13	14.466	12.449	1836*	21	23.270	16.478
				1615	8	6.855	5.086	1689	11	19.106	8.595	1763	12	17.654	12.724	1837	8	25.436	16.533
				1616	10	8.839	5.734	1690	16	22.715	8.502	1764	18	21.050	12.370	1838*	30	25.460	16.335
				1617	11	8.994	5.852	1691*	29	22.750	8.289	1765							

1845	14	4'534	17'481	1919	9	1'725	20'147	1993	8	5'116	23'079	2112	8	6'756	1'876	2186	8	19'158	5'916
1846	19	4'984	17'151	1920	8	2'664	20'380	1994	14	8'423	23'335	2113	12	7'564	1'270	2187	8	21'268	5'654
1847	9	5'522	17'108	1921	8	2'839	20'932	1995	8	10'564	23'576	2114*	37	10'680	1'429	2188	13	21'524	5'570
1848	17	6'033	17'963	1922	18	3'094	20'363	1996	13	12'686	23'139	2115	13	12'433	1'167	2189	14	21'722	5'290
1849	16	6'387	17'504	1923	10	4'608	20'737	1997	11	13'945	23'117	2116	16	13'354	1'923	2190	12	22'015	5'945
1850	14	7'900	17'579	1924	12	5'348	20'036	1998	12	14'445	23'996	2117*	70	13'677	1'727	2191	13	22'566	5'603
1851	17	8'795	17'784	1925	12	5'682	20'265	1999*	35	17'380	23'657	2118	12	16'900	1'149	2192	15	22'946	5'100
1852	18	9'290	17'362	1926	16	6'998	20'256	2000	8	20'459	23'152	2119	12	19'942	1'174	2193	13	24'124	5'986
1853	8	10'096	17'434	1927	15	9'130	20'080	2001	10	20'726	23'357	2120	16	21'749	1'616	2194	12	25'380	5'908
1854	10	10'133	17'833	1928	15	9'137	20'996	2002	8	21'190	23'300	2121	9	21'830	1'171	2195	16	25'440	5'280
1855	10	11'668	17'857	1929	12	9'215	20'836	2003	9	24'310	23'632	2122	10	22'477	1'584	2196	15	0'222	6'705
1856	7	12'063	17'415	1930	12	12'358	20'114	2004*	35	2'500	24'249	2123	8	0'173	2'244	2197	14	2'884	6'460
1857	8	12'178	17'095	1931	8	12'805	20'147	2005	10	5'346	24'997	2124	14	1'810	2'946	2198	14	5'471	6'087
1858	6	12'558	17'312	1932	13	14'300	20'800	2006*	22	7'640	24'026	2125	20	3'286	2'570	2199	12	6'754	6'673
1859	12	12'824	17'385	1933	13	14'377	20'335	2007	13	8'906	24'661	2126	12	5'615	2'106	2200	19	8'524	6'501
1860	10	13'813	17'912	1934	13	14'734	20'668	2008	19	11'886	24'494	2127	6	5'769	2'590	2201	11	9'451	6'218
1861	14	14'860	17'130	1935	10	15'062	20'535	2009	10	12'140	24'280	2128	9	9'407	2'202	2202	10	11'926	6'749
1862	7	15'519	17'305	1936	8	15'130	20'119	2010	9	18'040	24'757	2129	7	13'158	2'680	2203	7	16'935	6'877
1863	7	15'660	17'150	1937	7	17'335	20'419	2011	14	20'274	24'616	2130	9	14'356	2'785	2204	10	17'073	6'400
1864	6	17'171	17'381	1938	10	19'135	20'750	2012	12	20'366	24'025	2131	16	20'826	2'912	2205	11	20'235	6'152
1865	5	17'437	17'592	1939	18	20'627	20'859	2013	8	20'585	24'609	2132	11	21'232	2'999	2206	9	20'823	6'560
1866	10	18'656	17'921	1940	7	20'636	20'582	2014	11	20'694	24'121	2133	19	22'352	2'977	2207	14	23'054	6'374
1867	8	18'800	17'267	1941*	26	21'363	20'238	2015	8	21'538	24'124	2134	8	24'127	2'387	2208	10	23'082	6'635
1868	12	19'769	17'628	1942	10	22'315	20'008	2016	8	21'565	24'809	2135	19	24'250	2'627	2209	18	24'787	6'779
1869	11	19'790	17'073	1943	8	22'536	20'144	2017	19	22'794	24'188	2136	8	24'822	2'255	2210	10	2'064	7'395
1870	7	20'856	17'307	1944*	24	22'960	20'513	2018	14	22'924	24'677	2137	17	25'533	2'772	2211	20	2'176	7'196
1871	10	20'863	17'041	1945	11	23'445	20'444	2019	14	25'606	24'980	2138	18	1'079	3'620	2212	6	5'485	7'354
1872	6	0'019	18'636	1946	10	23'881	20'403	2020	14	3'435	25'514	2139	10	1'552	3'334	2213	20	10'385	7'082
1873	7	3'665	18'551	1947	9	25'865	20'400	2021	13	6'744	25'854	2140	21	8'925	3'819	2214	8	13'324	7'744
1874	8	7'616	18'857	1948	9	0'997	21'989	2022	12	7'463	25'196	2141	9	10'059	3'067	2215	12	15'156	7'810
1875	10	9'058	18'957	1949	8	1'695	21'715	2023	10	9'438	25'436	2142	22	13'305	3'716	2216	12	15'669	7'039
1876	21	10'550	18'600	1950	9	2'992	21'886	2024	11	10'784	25'929	2143	15	17'991	3'740	2217	10	16'670	7'840
1877	18	11'165	18'520	1951	5	4'357	21'766	2025	13	14'522	25'260	2144	14	19'133	3'319	2218	10	18'221	7'353
1878	9	12'456	18'775	1952	6	6'032	21'695	2026	15	14'560	25'363	2145	19	19'804	3'680	2219	9	18'225	7'368
1879	13	13'123	18'850	1953	12	7'233	21'717	2027	16	16'325	25'840	2146	19	25'363	3'088	2220	16	19'800	7'075
1880	24	14'580	18'402	1954	14	9'158	21'369	2028	9	16'442	25'417	2147	12	1'090	4'344	2221	10	21'195	7'515
1881	8	15'222	18'765	1955	14	11'472	21'919	2029	10	16'933	25'363	2148	16	1'375	4'155	2222	6	21'490	7'630
1882*	19	17'529	18'846	1956	16	12'226	21'130	2030	17	17'494	25'964	2149	12	2'006	4'150	2223	9	21'715	7'738
1883	11	21'693	18'137	1957	7	14'068	21'136	2031	17	20'206	25'170	2150	16	2'527	4'634	2224	8	21'823	7'736
1884	9	25'212	18'437	1958*	16	14'555	21'349	2032	7	25'610	25'396	2151	23	5'306	4'525	2225	10	22'034	7'250
1885	11	25'223	18'461	1959	18	14'571	21'351					2152	14	6'346	4'759	2226	14	22'881	7'457
1886	14	0'274	19'840	1960	8	15'200	21'286					2153	17	6'410	4'484	2227	6	24'190	7'650
1887	15	0'985	19'895	1961	10	16'474	21'024					2154	10	9'026	4'374	2228	8	25'729	7'016
1888	9	1'753	19'106	1962	11	16'780	21'329					2155	9	10'951	4'235	2229	15	0'641	8'561
1889	6	1'804	19'057	1963	9	20'835	21'203					2156	15	12'445	4'458	2230*	29	0'672	8'347
1890	12	2'029	19'790	1964	9	20'919	21'641					2157	21	12'725	4'665	2231	14	2'816	8'674
1891	10	3'047	19'795	1965	8	22'876	21'272					2158	9	16'365	4'168	2232	15	3'923	8'348
1892	11	3'130	19'315	1966	18	23'335	21'410					2159	15	16'709	4'514	2233	38	3'927	8'367
1893	9	3'843	19'106	1967	7	23'775	21'625					2160	10	16'919	4'310	2234	10	3'953	8'433
1894	13	4'826	19'055	1968	7	24'887	21'792					2161	12	17'516	4'195	2235	13	4'500	8'172
1895	9	4'915	19'273	1969	9	2'994	22'886					2162	10	17'964	4'403	2236	18	4'798	8'526
1896	14	5'775	19'288	1970	10	3'835	22'541					2163	13	18'676	4'017	2237	7	5'878	8'563
1897	12	9'371	19'384	1971	7	4'345	22'352					2164*	34	19'422	4'880	2238	10	10'764	8'437
1898	16	9'527	19'320	1972	9	9'367	22'907					2165	10	19'732	4'935	2239	9	11'266	8'925
1899	4	10'014	19'809	1973	9	9'816	22'911					2166	8	19'940	4'600	2240	12	12'963	8'233
1900	9	10'657	19'169	1974	10	10'123	22'135					2167	13	21'347	4'879	2241	14	14'585	8'410
1901	21	12'299	19'188	1975	13	11'636	22'231					2168	21	21'415	4'890	2242	8	16'270	8'821
1902	7	13'034	19'571	1976	12	12'682	22'629					2169	13	24'790	4'162	2243	15	16'725	8'894
1903	16	14'190	19'792	1977	19	13'800	22'268					2170	16	2'354	5'061	2244	8	17'414	8'343
1904	12	14'437	19'713	1978	10	17'367	22'790					2171	10	2'738	5'795	2245	6	19'800	8'464
1905	11	16'250	19'394	1979	11	17'395	22'265					2172	5	2'833	5'664	2246	14	20'001	8'682
1906	10	16'899	19'500	1980	8	17'555	22'890					2173	15	4'653	5'953	2247	6	20'725	8'856
1907*	23	16'969	19'090	1981	9	19'345	22'366					2174	14	5'742	5'772	2248	10	23'442	8'610
1908	5	17'495	19'602	1982	12	19'805	22'296					2175	8	6'218	5'276	2249	18	25'420	8'882
1909	13	17'727	19'986	1983	11	19'885	22'184					2176	7	9'063	5'815	2250	10	2'875	9'562
1910	10	19'177	19'374	1984	11	20'501	22'686					2177	17	9'774	5'439	2251	8	2'945	9'227
1911	8	22'565	19'348	1985	16	20'668	22'773					2178	14	10'762	5'166	2252	7	4'034	9'615
1912	9	23'876	19'717	1986	17	21'834	22'928					2179							

2260	18	13°230	9°069	2334	13	8°179	13°317	2408	9	11°686	17°685	2482	18	13°340	21°234	2556	10	8°138	25°240
2261	18	13°003	9°404	2335	12	10°374	13°147	2409	8	12°662	17°786	2483	7	13°482	21°527	2557	16	9°100	25°975
2262	21	15°665	9°635	2336	12	13°339	13°651	2410*	27	13°279	17°070	2484	6	13°870	21°888	2558	14	10°324	25°433
2263	18	16°894	9°463	2337	20	14°250	13°491	2411	10	14°114	17°674	2485	12	13°925	21°051	2559	16	10°760	25°843
2264	7	17°265	9°015	2338	17	14°604	13°539	2412*	27	15°650	17°216	2486	6	14°458	21°730	2560	14	11°180	25°737
2265	11	17°532	9°940	2339	6	17°735	13°484	2413	14	16°719	17°486	2487	11	15°055	21°047	2561	17	12°648	25°528
2266	20	17°664	9°014	2340	13	19°695	13°205	2414	8	18°100	17°671	2488	13	17°343	21°114	2562	19	12°784	25°442
2267	9	19°047	9°531	2341	7	20°263	13°636	2415	10	18°545	17°441	2489	16	19°947	21°005	2563	12	12°887	25°755
2268	13	21°502	9°113	2342	7	20°470	13°246	2416	6	18°895	17°757	2490	6	19°953	21°694	2564	24	13°614	25°013
2269	14	22°274	9°493	2343	7	21°023	13°366	2417	15	20°207	17°127	2491	11	20°264	21°425	2565	8	15°502	25°140
2270	6	24°749	9°385	2344	12	21°693	13°284	2418	18	21°066	17°350	2492	15	20°283	21°387	2566	16	16°973	25°752
2271*	20	24°766	9°666	2345*	23	22°045	13°830	2419	14	21°900	17°607	2493	7	24°634	21°505	2567	17	17°606	25°432
2272*	18	24°830	9°727	2346	13	23°025	13°644	2420	11	24°239	17°585	2494	16	24°733	21°623	2568	12	19°564	25°967
2273	12	24°874	9°864	2347	17	23°930	13°114	2421	12	3°370	18°464	2495	13	25°424	21°965	2569	12	20°330	25°305
2274*	24	25°561	9°970	2348	17	1°339	14°827	2422	8	4°028	18°516	2496	6	0°912	22°824	2570	11	22°144	25°555
2275	10	5°284	10°256	2349	13	7°060	14°117	2423	11	6°252	18°507	2497	14	1°035	22°560	2571	12	22°955	25°413
2276	12	5°386	10°197	2350	11	7°935	14°564	2424	13	6°696	18°943	2498*	24	3°444	22°355				
2277	10	6°234	10°085	2351	9	11°056	14°695	2425	14	7°196	18°912	2499*	43	6°600	22°254				
2278*	38	6°557	10°335	2352	16	11°616	14°559	2426	14	8°732	18°260	2500	16	10°970	22°757				
2279	13	7°750	10°610	2353	9	13°520	14°963	2427	14	9°307	18°839	2501	11	10°979	22°646				
2280	13	8°943	10°466	2354	23	17°014	14°086	2428	11	9°507	18°637	2502	8	11°225	22°265				
2281	9	9°744	10°126	2355	8	18°296	14°680	2429	10	9°735	18°168	2503	8	11°709	22°245				
2282	12	10°450	10°545	2356	16	20°450	14°041	2430	14	11°594	18°382	2504	14	11°807	22°310				
2283	5	11°147	10°089	2357	10	20°589	14°114	2431	8	15°483	18°962	2505	16	12°717	22°115				
2284	9	11°374	10°295	2358	10	23°790	14°410	2432	12	20°185	18°998	2506	13	12°825	22°615				
2285	8	11°807	10°747	2359	12	24°060	14°753	2433	8	20°278	18°129	2507	9	13°109	22°964				
2286	10	15°319	10°689	2360	13	25°554	14°288	2434	5	21°872	18°458	2508	11	13°272	22°750				
2287	11	16°240	10°480	2361	14	0°350	15°950	2435	13	22°483	18°636	2509	9	14°087	22°521				
2288	12	16°515	10°007	2362	8	1°045	15°445	2436	10	22°844	18°960	2510	9	14°538	22°889				
2289	7	17°172	10°430	2363	11	1°569	15°754	2437	19	23°893	18°565	2511	16	15°066	22°534				
2290	6	17°412	10°560	2364	18	2°896	15°535	2438	7	25°514	18°441	2512	10	15°257	22°032				
2291	16	23°097	10°229	2365	5	3°398	15°066	2439	8	25°672	18°859	2513	16	17°284	22°214				
2292	6	24°120	10°375	2366	10	4°659	15°336	2440	8	2°046	19°748	2514	10	20°546	22°387				
2293	11	25°645	10°821	2367	6	6°292	15°467	2441	6	2°696	19°085	2515	6	23°690	22°286				
2294	13	0°904	11°866	2368*	34	7°642	15°076	2442	6	2°789	19°255	2516	6	23°885	22°065				
2295	13	2°198	11°886	2369*	21	7°964	15°537	2443*	40	3°330	19°835	2517	10	25°262	22°096				
2296	15	4°685	11°995	2370	20	12°841	15°536	2444*	24	3°383	19°540	2518	10	25°906	22°289				
2297	16	6°214	11°720	2371	8	13°365	15°796	2445	14	4°126	19°590	2519	14	0°074	23°005				
2298	18	6°295	11°917	2372	7	13°818	15°437	2446	10	6°105	19°892	2520	8	4°394	23°946				
2299	18	8°537	11°715	2373	11	14°093	15°002	2447	14	8°873	19°610	2521*	31	4°985	23°573				
2300	18	11°134	11°821	2374	31	19°945	15°291	2448	10	8°887	19°343	2522	7	5°537	23°744				
2301	9	12°323	11°032	2375	13	20°547	15°284	2449	7	9°035	19°595	2523	12	9°005	23°410				
2302	21	12°585	11°296	2376	9	22°485	15°615	2450	22	9°480	19°099	2524	12	9°107	23°683				
2303	13	14°702	11°865	2377	7	23°035	15°492	2451	8	9°725	19°600	2525	13	9°707	23°159				
2304	13	18°073	11°334	2378	16	23°516	15°923	2452	13	14°522	19°793	2526	12	14°361	23°630				
2305	7	18°194	11°127	2379	8	24°077	15°484	2453	16	15°797	19°887	2527	16	15°193	23°102				
2306	22	19°130	11°079	2380	15	24°890	15°270	2454	11	23°478	19°003	2528	12	15°635	23°810				
2307	9	19°309	11°380	2381	15	25°160	15°727	2455	8	24°279	19°198	2529	11	17°940	23°353				
2308	10	19°657	11°974	2382	7	1°024	16°442	2456	13	24°292	19°406	2530	13	19°176	23°350				
2309	11	20°055	11°125	2383*	22	1°370	16°525	2457	13	24°640	19°987	2531	6	19°545	23°190				
2310	12	20°151	11°900	2384*	33	3°560	16°333	2458	16	24°643	19°156	2532	5	19°578	23°515				
2311	11	20°390	11°112	2385	16	4°190	16°066	2459	8	0°495	20°078	2533	18	21°213	23°624				
2312	11	20°562	11°785	2386	9	7°160	16°915	2460*	25	1°150	20°565	2534	11	21°461	23°213				
2313	13	23°070	11°352	2387	10	7°633	16°733	2461	11	1°634	20°486	2535	18	21°872	23°695				
2314	14	25°854	11°346	2388	20	8°696	16°089	2462	8	2°071	20°435	2536	16	22°979	23°948				
2315	18	25°963	11°800	2389	16	9°064	16°914	2463	10	4°051	20°390	2537	12	23°642	23°691				
2316	14	1°119	12°054	2390	17	12°366	16°994	2464	16	6°639	20°366	2538	20	25°598	23°634				
2317	13	3°804	12°700	2391*	31	14°207	16°195	2465	13	7°525	20°731	2539	19	1°065	24°245				
2318	16	3°855	12°449	2392	17	16°880	16°497	2466	12	7°808	20°913	2540	14	1°203	24°733				
2319	10	7°534	12°150	2393	15	17°454	16°225	2467	15	11°151	20°237	2541	16	3°895	24°972				
2320	14	8°016	12°246	2394	13	17°529	16°434	2468	10	14°468	20°465	2542	9	4°304	24°128				
2321	20	10°306	12°590	2395	13	19°183	16°772	2469	14	15°074	20°717	2543	16	8°313	24°366				
2322	17	11°877	12°719	2396	13	19°406	16°913	2470	13	17°371	20°219	2544	12	9°530	24°956				
2323	11	12°091	12°520	2397	12	21°742	16°720	2471	13	17°776	20°513	2545	12	9°645	24°120				
2324	8	18°920	12°302	2398	23	22°660	16°860	2472	12	17°797	20°285	2546	13	9°970	24°136				
2325	12	20°174	12°025	2399*	24	24°743	16°434	2473	10	21°664	20°395	2547	12	13°597	24°896				
2326	10	21°025	12°645	2400	10	7°035	17°070	2474	13	22°577	20°100	2548	9	14°721	24°136				
2327	18	21°524	12°695	2401	17	8°170	17°523	2475*	36	25°084	20°412	2549	12	16°388	24°892				
2328	8	23°750	12°382	2402	9	8°794	17°308	2476	7	25°145	20°355	2550	18	16°675	24°570				
2329	8	24°214	12°990	2403	14														

2636	10	19°724	2°100	2710	14	4°650	6°975	2784	13	12°695	9°207	2858*	22	0°090	13°957	2932*	27	20°768	15°396
2637	12	19°772	2°495	2711	12	11°305	6°208	2785	18	12°758	9°084	2859	13	1°067	13°757	2933*	37	21°156	15°677
2638	21	21°585	2°231	2712	10	11°403	6°551	2786	18	13°587	9°539	2860	6	1°126	13°926	2934	9	21°256	15°302
2639	6	21°903	2°311	2713	12	11°569	6°175	2787	18	13°910	9°726	2861	17	1°966	13°213	2935	12	21°540	15°713
2640	18	22°457	2°819	2714	14	11°927	6°036	2788	12	16°207	9°757	2862	8	2°246	13°086	2936	14	22°133	15°843
2641	10	23°070	2°856	2715	24	12°110	6°564	2789	22	20°505	9°489	2863	12	4°352	13°281	2937	10	22°243	15°941
2642	14	25°289	2°489	2716	12	15°796	6°576	2790	16	22°264	9°630	2864	10	4°656	13°825	2938	6	25°325	15°349
2643	18	0°231	3°100	2717	12	16°466	6°950	2791	10	23°842	9°353	2865	9	4°837	13°663	2939	21	0°753	16°980
2644	20	3°244	3°165	2718	6	16°873	6°549	2792	6	24°612	9°967	2866	9	5°154	13°772	2940	14	1°595	16°027
2645	5	5°056	3°260	2719	8	17°274	6°954	2793	17	1°089	10°340	2867	13	5°930	13°324	2941*	22	2°828	16°519
2646	10	8°393	3°180	2720	9	20°473	6°340	2794*	24	3°547	10°044	2868	6	7°164	13°582	2942	14	4°637	16°205
2647	12	9°147	3°319	2721	16	20°639	6°776	2795	12	3°644	10°895	2869	7	7°782	13°322	2943	10	6°177	16°083
2648	7	10°387	3°730	2722	10	21°227	6°559	2796	15	4°787	10°914	2870	18	7°784	13°006	2944	13	6°579	16°144
2649	7	10°558	3°809	2723	8	22°360	6°949	2797	6	10°234	10°434	2871	8	8°404	13°498	2945	7	8°460	16°665
2650	10	12°910	3°011	2724	8	22°495	6°273	2798	21	12°916	10°099	2872	10	9°700	13°056	2946	10	8°524	16°650
2651	11	14°848	3°628	2725	16	22°564	6°560	2799	8	15°775	10°314	2873	13	11°379	13°095	2947	13	9°196	16°367
2652	10	15°370	3°808	2726	9	22°793	6°809	2800	8	16°187	10°542	2874	18	12°120	13°345	2948	18	11°155	16°689
2653	10	16°476	3°349	2727	10	23°075	6°180	2801	16	16°580	10°435	2875	7	12°190	13°346	2949	5	13°260	16°346
2654	6	16°884	3°437	2728	7	25°315	6°136	2802	11	17°786	10°105	2876	13	13°370	13°895	2950	13	13°515	16°089
2655	12	17°363	3°904	2729	14	0°829	7°574	2803	10	19°298	10°844	2877	14	13°480	13°254	2951	15	13°522	16°894
2656	15	19°411	3°396	2730	10	3°670	7°085	2804	7	19°300	10°824	2878	13	14°435	13°123	2952	6	15°691	16°094
2657	10	19°499	3°467	2731	13	5°604	7°769	2805	10	20°115	10°991	2879*	49	16°440	13°310	2953	5	18°134	16°633
2658	9	21°255	3°906	2732	13	6°557	7°610	2806	17	20°323	10°324	2880	12	19°040	13°835	2954	5	18°355	16°655
2659	13	2°690	4°250	2733	10	7°044	7°916	2807	7	21°137	10°041	2881	6	19°235	13°480	2955	10	19°834	16°736
2660	18	6°126	4°609	2734	10	7°784	7°381	2808	10	24°229	10°543	2882	5	19°604	13°227	2956*	20	20°635	16°960
2661	24	8°560	4°045	2735	6	8°377	7°630	2809	12	24°446	10°394	2883	15	19°730	13°013	2957	11	21°834	16°930
2662	18	9°047	4°986	2736	23	8°740	7°294	2810	13	1°077	11°465	2884	12	24°119	13°595	2958	11	22°220	16°370
2663	12	9°214	4°257	2737	5	8°945	7°643	2811	13	3°863	11°415	2885	17	24°137	13°595	2959	12	22°372	16°850
2664	9	10°404	4°574	2738	12	10°877	7°034	2812	16	3°979	11°870	2886	6	24°622	13°662	2960	10	23°150	16°670
2665	10	10°656	4°944	2739	13	11°776	7°255	2813	14	4°028	11°426	2887	8	25°074	13°830	2961	18	24°325	16°379
2666*	26	11°713	4°686	2740	12	12°644	7°997	2814	10	4°243	11°996	2888	8	25°170	13°590	2962	8	24°773	16°382
2667	16	12°077	4°994	2741	13	15°125	7°479	2815	8	6°060	11°541	2889	16	25°500	13°455	2963	12	0°004	17°735
2668	14	12°862	4°917	2742	10	16°575	7°969	2816	9	7°172	11°013	2890	8	1°846	14°512	2964	10	2°344	17°678
2669	16	14°425	4°944	2743	7	16°576	7°654	2817	12	9°178	11°512	2891	12	2°122	14°850	2965	10	5°085	17°489
2670	18	15°554	4°387	2744	13	18°077	7°061	2818	9	11°440	11°218	2892	7	3°380	14°625	2966	9	6°177	17°072
2671	10	16°104	4°037	2745	10	19°700	7°985	2819	11	11°604	11°876	2893	13	3°610	14°361	2967	9	6°385	17°970
2672	6	17°105	4°666	2746	10	20°253	7°395	2820	7	12°685	11°395	2894	13	5°412	14°696	2968	8	7°137	17°869
2673*	25	20°105	4°521	2747	10	21°316	7°923	2821	12	13°460	11°105	2895	13	5°482	14°043	2969	9	8°365	17°449
2674	12	21°678	4°489	2748	14	21°755	7°931	2822*	28	14°812	11°993	2896	8	5°582	14°041	2970	6	11°433	17°572
2675	9	24°578	4°377	2749	14	24°045	7°322	2823	13	15°074	11°456	2897	8	7°293	14°256	2971	5	13°347	17°812
2676	11	0°486	5°725	2750	18	24°127	7°589	2824	11	18°889	11°966	2898	7	8°472	14°563	2972	5	13°450	17°298
2677	13	0°856	5°216	2751*	25	25°095	7°665	2825	9	20°074	11°312	2899	9	9°713	14°905	2973	10	14°675	17°609
2678	12	3°305	5°986	2752	10	1°409	8°718	2826	8	22°529	11°946	2900	9	10°404	14°823	2974	10	16°459	17°285
2679	16	3°355	5°354	2753	20	3°390	8°959	2827	8	24°367	11°475	2901	6	11°510	14°744	2975	20	16°560	17°199
2680	7	4°310	5°881	2754	11	4°555	8°754	2828	20	24°370	11°577	2902	8	12°353	14°333	2976	8	17°676	17°462
2681	10	4°917	5°539	2755	12	5°334	8°053	2829*	26	24°730	11°073	2903	18	13°355	14°977	2977	18	19°209	17°638
2682	10	6°866	5°916	2756	13	5°419	8°937	2830*	7	25°282	11°515	2904	6	14°778	14°335	2978	15	19°726	17°763
2683	17	7°115	5°391	2757	18	7°973	8°112	2831	10	25°370	11°048	2905	7	17°167	14°355	2979	9	20°082	17°367
2684	6	7°360	5°722	2758	8	7°980	8°510	2832	9	1°776	12°481	2906	10	17°425	14°936	2980*	20	20°790	17°638
2685	6	9°564	5°773	2759	13	8°385	8°306	2833	10	4°689	12°350	2907	8	19°110	14°247	2981	8	21°970	17°537
2686	6	10°040	5°214	2760	16	8°482	8°315	2834	11	4°878	12°957	2908	10	19°541	14°083	2982	13	22°425	17°634
2687	13	10°220	5°330	2761	8	9°677	8°705	2835	10	5°286	12°857	2909	6	20°740	14°065	2983	13	0°604	18°758
2688	10	10°410	5°414	2762	8	11°673	8°733	2836	10	5°647	12°495	2910	6	21°282	14°822	2984	18	2°013	18°665
2689	12	10°888	5°252	2763	7	12°160	8°696	2837	6	6°377	12°281	2911	10	21°365	14°500	2985	7	3°630	18°515
2690	7	14°047	5°362	2764	15	12°941	8°108	2838	10	6°625	12°469	2912	16	21°430	14°826	2986	11	3°800	18°933
2691	13	14°814	5°273	2765	10	13°037	8°889	2839	16	6°825	12°357	2913	11	21°585	14°351	2987	7	6°095	18°472
2692	10	15°556	5°124	2766	7	18°223	8°146	2840*	46	8°350	12°725	2914	5	24°230	14°597	2988	11	9°620	18°538
2693	10	15°589	5°309	2767	13	21°230	8°726	2841*	33	9°527	12°907	2915*	22	24°892	14°865	2989	8	13°208	18°360
2694	14	16°564	5°907	2768	12	22°456	8°536	2842	8	10°574	12°765	2916	7	0°560	15°736	2990	8	13°429	18°639
2695	8	17°255	5°320	2769	10	22°795	8°240	2843	10	10°696	12°285	2917	6	1°106	15°605	2991	10	14°578	18°587
2696	12	17°547	5°506	2770	12	24°387	8°936	2844	7	11°114	12°397	2918	14	2°957	15°354	2992	12	14°760	18°156
2697	10	19°117	5°752	2771	12	24°532	8°469	2845	8	11°116	12°314	2919	14	3°236	15°809	2993	6	17°386	18°717
2698	14	20°275	5°265	2772	8	25°270	8°780	2846	9	11°933	12°100	2920	19	5°037	15°330	2994	13	17°737	18°196
2699	6	20°394	5°345	2773	14	0°253	9°615	2847	9	13°280	12°446	2921	18	5°590	15°690	2995	13	18°233	18°482
2700	12	21°030	5°857	2774*	21	2°747	9°755	2848	12	14°327	12°095								

3006	16	2°773	19°244	3080*	37	12°640	22°655	3257	9	13°351	6°579	3331	11	18°419	14°996
3007	15	6°198	19°375	3081	19	13°036	22°284	3258*	25	19°557	6°798	3332	12	19°940	14°170
3008*	24	6°610	19°310	3082	12	13°816	22°987	3259	11	19°800	6°875	3333	7	21°340	14°113
3009	11	9°253	19°950	3083	5	14°438	22°850	3260	10	21°146	6°208	3334	7	21°569	14°708
3010	8	12°484	19°557	3084	13	15°930	22°341	3261	7	0°809	7°417	3335	10	23°029	14°784
3011	9	12°633	19°560	3085	10	20°139	22°364	3262	8	2°515	7°404	3336	10	8°147	15°100
3012	5	13°524	19°767	3086	10	20°467	22°764	3263	14	2°598	7°669	3337	11	9°158	15°833
3013	12	14°656	19°017	3087	9	20°792	22°629	3264*	25	3°556	7°734	3338*	25	12°720	15°116
3014	10	14°660	19°094	3088	16	20°795	22°202	3265	11	9°907	7°602	3339	11	14°860	15°324
3015	18	18°983	19°476	3089	14	21°376	22°833	3266	8	9°973	7°885	3340*	22	15°312	15°445
3016	13	20°103	19°722	3090	5	22°501	22°246	3267	19	10°015	7°225	3341	11	22°432	15°766
3017	16	21°264	19°425	3091	14	0°070	23°829	3268	10	14°366	7°818	3342	15	2°893	16°391
3018	5	21°628	19°390	3092	12	1°840	23°796	3269	13	14°851	7°779	3343	11	9°383	16°239
3019	16	22°145	19°925	3093	20	3°797	23°706	3270	13	18°022	7°386	3344	11	9°838	16°338
3020	13	22°279	19°710	3094	14	4°274	23°199	3271*	16	18°598	7°492	3345	9	16°721	16°826
3021	7	23°338	19°778	3095	9	4°774	23°514	3272	12	5°884	8°701	3346	10	17°166	16°868
3022	7	23°907	19°892	3096	8	5°369	23°407	3273	12	7°579	8°644	3347	11	17°211	16°935
3023	11	24°894	19°479	3097	18	7°264	23°100	3274	13	10°037	8°686	3348	11	19°685	16°683
3024	9	24°894	19°017	3098	17	7°998	23°764	3275	17	10°327	8°061	3349	7	4°689	17°494
3025	12	0°720	20°223	3099	6	9°700	23°700	3276	6	13°452	8°629	3350	7	7°366	17°524
3026	14	2°784	20°077	3100	24	10°416	23°874	3277	15	16°606	8°571	3351	10	8°567	17°117
3027*	34	3°233	20°491	3101	11	10°966	23°445	3278	6	18°484	8°039	3352	6	12°474	17°966
3028	9	3°293	20°434	3102	5	11°114	23°405	3279	8	18°490	8°351	3353	11	12°775	17°184
3029	17	3°414	20°683	3103	10	12°996	23°326	3280	21	24°808	8°335	3354	13	14°281	17°809
3030	10	5°272	20°184	3104	7	13°998	23°504	3281*	23	4°656	9°014	3355	10	14°542	17°378
3031	8	5°574	20°352	3105	10	14°260	23°024	3282	10	8°010	9°618	3356	13	16°597	17°024
3032	13	5°785	20°663	3106	10	15°336	23°130	3283*	33	12°995	9°812	3357	19	17°948	17°280
3033	11	9°555	20°805	3107	11	17°393	23°760	3284	13	14°060	9°850	3358	9	18°701	17°784
3034	10	10°023	20°490	3108	6	18°633	23°415	3285	10	14°241	9°835	3359	19	22°991	17°307
3035	14	13°760	20°900	3109	15	23°931	23°271	3286	13	16°325	9°936	3360	16	24°433	17°875
3036	13	15°328	20°633	3110	7	0°944	24°562	3287	11	18°060	9°591	3361	19	4°245	18°656
3037	15	16°395	20°990	3111	14	1°183	24°064	3288	8	21°712	9°271	3362	11	5°821	18°846
3038	9	16°639	20°084	3112	7	2°174	24°680	3289	12	21°917	9°770	3363	14	11°735	18°418
3039	15	17°251	20°653	3113	15	4°774	24°032	3290*	42	25°002	9°869	3364	12	17°539	18°676
3040	11	17°736	20°910	3114	10	7°254	24°457	3291	12	25°254	9°937	3365	14	17°720	18°175
3041	14	17°960	20°935	3115	10	7°744	24°036	3292	9	8°281	10°775	3366	8	21°894	18°306
3042	12	21°794	20°385	3116	16	9°403	24°674	3293	13	12°746	10°672	3367	8	0°770	19°931
3043	14	22°536	20°621	3117	8	9°709	24°955	3294	14	21°861	10°966	3368	11	9°145	19°534
3044	12	23°537	20°127	3118	10	10°746	24°595	3295	14	2°886	11°623	3369	7	11°992	19°113
3045	7	23°604	20°240	3119	13	12°892	24°562	3296*	23	3°235	11°116	3370	16	13°995	19°144
3046	6	2°803	21°590	3120	5	17°184	24°365	3297*	39	4°853	11°061	3371*	22	19°258	19°847
3047	17	2°900	21°710	3121*	28	17°810	24°121	3298	7	4°973	11°852	3372	7	23°075	19°048
3048	10	2°986	21°279	3122	14	20°609	24°294	3299*	19	5°179	11°858	3373	6	25°753	19°821
3049	8	6°421	21°501	3123	12	21°716	24°951	3300	15	6°999	11°862	3374	10	14°102	20°458
3050	12	7°146	21°425	3124	12	22°065	24°325	3301	9	9°235	11°673	3375	8	20°631	20°798
3051	24	7°481	21°694	3125	18	23°915	24°368	3302	18	11°024	11°118	3376	6	20°945	20°364
3052	13	7°523	21°492	3126	7	24°196	24°876	3303*	22	16°643	11°296	3377	6	21°823	20°814
3053*	23	7°666	21°609	3127	8	24°586	24°265	3304*	23	21°416	11°783	3378*	24	22°621	20°247
3054	14	7°855	21°184	3128	7	0°370	25°681	3305	9	22°928	11°876	3379	8	22°873	20°169
3055*	28	8°016	21°034	3129	10	1°177	25°531	3306	11	24°982	11°975	3380	6	9°934	21°680
3056*	42	8°566	21°878	3130	13	6°422	25°790	3307*	39	4°095	12°188	3381	6	11°219	21°172
3057	11	9°844	21°494	3131	10	8°279	25°165	3308	11	4°906	12°337	3382	9	11°353	21°491
3058	13	9°859	21°419	3132	12	9°380	25°635	3309	12	6°980	12°710	3383	8	11°526	21°337
3059	21	10°148	21°405	3133	14	10°005	25°530	3310	9	9°107	12°428	3384	9	12°811	21°285
3060	10	12°900	21°267	3134	10	10°595	25°026	3311	14	9°653	12°248	3385	21	14°917	21°781
3061	9	13°039	21°491	3135	14	12°285	25°300	3312	14	12°226	12°755	3386	12	16°781	21°273
3062	7	15°308	21°266	3136	9	12°374	25°545	3313	12	14°604	12°980	3387	9	20°628	21°574
3063	18	16°006	21°240	3137	21	12°617	25°819	3314	8	18°647	12°559	3388	10	22°136	21°800
3064	11	17°833	21°117	3138	16	12°657	25°342	3315	8	22°034	12°323	3389	10	23°096	21°370
3065	10	19°177	21°825	3139	15	13°406	25°305	3316	11	1°762	13°024	3390	8	9°387	22°711
3066	20	20°854	21°638	3140	12	14°003	25°667	3317	15	2°674	13°619	3391*	31	11°517	22°381
3067	11	23°618	21°954	3141	7	15°169	25°132	3318	12	4°023	13°476	3392	11	11°630	22°937
3068	6	2°063	22°165	3142	8	16°780	25°130	3319	9	13°525	13°022	3393	13	12°002	22°060
3069	10	3°443	22°336	3143	10	17°295	25°363	3320	9	14°697	13°877	3394	12	20°765	22°230
3070	13	3°594	22°039	3144	9	17°860	25°089	3321	12	18°991	13°484	3395	10	25°298	22°544
3071	12	4°085	22°358	3145	22	18°355	25°939	3322	20	20°444	13°615	3396	9	25°350	22°608
3072	8	4°847	22°146	3146	11	18°409	25°874	3323	8	20°983	13°655	3397	19	25°565	22°273
3073	9	6°625	22°995	3147	20	21°289	25°455	3324*	21	3°436	14°879	3398	8	2°576	23°228
3074	8	7°595	22°238	3148*	28	21°464	25°236	3325*	34	5°198	14°914	3399*	28	8°289	23°148
3075	8	8°361	22°670	3149	18	21°562	25°032	3326	10	10°496	14°999	3400	8	11°898	23°061
3076	8	8°712	22°839	3150	8	23°044	25°513	3327	12	12°016	14°010	3401	8	20°911	23°598
3077	14	10°339	22°501					3328	12	13°194	14°507	3402*	28	21°382	23°407
3078	10	10°697	22°550					3329	8	16°904	14°806	3403	9	21°719	23°021
3079	12	12°275	22°724					3330	14	17°788	14°324	3404	7	23°761	23°349

R. A. 0^h 52^m

Plate 2698 ; 1908 Dec. 9.

Provisional Constants.

A	B	C
-00048	+00196	+2088

D	E	F
-00235	-00032	-1694

Mag. = 15.2 - 1.25√d

No.	d	x	y
3201	11	5°744	0°302
3202	15	8°704	0°071
3203	11	13°538	0°536
3204*	47	16°180	0°584
3205	13	0°310	1°068
3206*	50	7°426	1°008
3207	12	8°960	1°517
3208*	22	10°258	1°506
3209	20	15°988	1°812
3210	10	18°854	1°

3405	16	2°575	24°316	3538	10	2°137	2°509	3612	11	1°199	6°770	3686	8	7°396	9°113	3760	22	14°554	13°943
3406	6	6°547	24°710	3539	15	2°285	2°315	3613	12	1°430	6°320	3687	16	8°026	9°337	3761	10	16°228	13°249
3407	10	7°720	24°619	3540*	22	4°062	2°243	3614	9	1°875	6°307	3688*	34	9°390	9°214	3762	12	17°393	13°690
3408	11	8°041	24°328	3541	10	4°811	2°164	3615	9	3°102	6°769	3689	12	10°405	9°893	3763	8	22°350	13°402
3409	19	9°040	24°522	3542	10	7°936	2°640	3616	10	3°507	6°325	3690	10	11°714	9°523	3764	9	22°523	13°677
3410	7	15°978	24°558	3543	11	8°154	2°350	3617	12	3°994	6°803	3691	14	11°998	9°198	3765	8	22°893	13°935
3411	10	16°974	24°449	3544	14	10°879	2°630	3618	10	4°200	6°848	3692	17	12°210	9°095	3766	8	22°933	13°052
3412	12	21°681	24°954	3545	8	16°565	2°973	3619	10	4°425	6°715	3693	7	14°240	9°884	3767	14	23°987	13°794
3413*	33	23°449	24°016	3546	13	16°602	2°765	3620	16	10°452	6°887	3694	11	18°898	9°550	3768	14	0°958	14°978
3414	19	24°415	24°648	3547	8	18°979	2°397	3621	9	10°693	6°196	3695	11	21°725	9°551	3769	9	1°696	14°895
3415	35	0°150	25°212	3548	15	23°858	2°417	3622	8	13°323	6°593	3696	8	22°420	9°843	3770	22	5°043	14°748
3416	12	0°240	25°007	3549	12	24°545	2°363	3623	9	13°351	6°996	3697	8	0°877	10°846	3771	8	6°726	14°965
3417	26	7°403	25°414	3550	18	25°064	2°677	3624	14	15°486	6°304	3698	8	1°072	10°274	3772	9	6°764	14°215
3418*	12	12°722	25°282	3551	9	2°590	3°691	3625	12	17°440	6°270	3699	13	4°895	10°933	3773	19	8°178	14°054
				3552	9	3°344	3°360	3626	6	22°062	6°532	3700	16	5°265	10°866	3774	15	8°208	14°382
				3553	24	4°007	3°402	3627	6	22°167	6°867	3701	14	7°298	10°904	3775	13	8°835	14°317
				3554	6	5°178	3°233	3628	8	22°426	6°424	3702	13	10°070	10°040	3776	10	10°276	14°972
				3555	15	5°929	3°320	3629	6	24°161	6°697	3703	10	11°818	10°354	3777	14	10°459	14°900
				3556	13	5°986	3°774	3630	13	25°027	6°866	3704	18	14°486	10°090	3778	7	13°273	14°480
				3557	17	6°917	3°986	3631	14	25°631	6°326	3705	16	15°437	10°300	3779	6	13°415	14°307
				3558	12	7°315	3°426	3632	8	0°894	7°349	3706	8	16°884	10°785	3780	12	17°027	14°947
				3559	10	8°152	3°022	3633	9	4°018	7°256	3707	6	18°329	10°891	3781	12	19°418	14°639
				3560	11	8°523	3°672	3634	13	4°052	7°206	3708	10	5°817	11°794	3782	12	20°940	14°202
				3561	13	8°725	3°203	3635	10	4°380	7°488	3709	12	7°914	11°783	3783	14	21°059	14°965
				3562	10	9°973	3°644	3636	14	6°940	7°835	3710	12	8°551	11°499	3784	12	23°805	14°810
				3563	11	16°178	3°390	3637	9	7°865	7°861	3711	14	9°047	11°286	3785	9	24°806	14°550
				3564	18	17°706	3°971	3638	8	9°020	7°684	3712	17	11°797	11°397	3786	18	25°175	14°188
				3565	12	19°401	3°219	3639	14	9°634	7°370	3713	8	12°208	11°840	3787	22	25°216	14°555
				3566	18	20°418	3°305	3640	10	11°029	7°351	3714	11	14°060	11°646	3788	10	25°934	14°049
				3567	8	22°131	3°969	3641	10	12°330	7°041	3715	12	14°713	11°360	3789	16	0°377	15°983
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				3570	10	0°938	4°682	3644	13	15°215	7°096	3718	14	15°777	11°837	3792	12	10°235	15°268
				3571	16	2°948	4°986	3645	10	15°769	7°099	3719	7	17°945	11°464	3793	10	11°290	15°053
				3572	10	5°310	4°860	3646	9	19°565	7°776	3720	13	19°143	11°546	3794	10	12°555	15°342
				3573*	25	5°563	4°773	3647	10	21°049	7°654	3721	12	19°213	11°805	3795	9	14°134	15°495
				3574	7	6°512	4°677	3648	18	21°527	7°934	3722	12	19°379	11°690	3796	7	14°315	15°027
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				3576	14	8°500	4°255	3650	10	23°357	7°142	3724	8	20°575	11°472	3798	9	16°323	15°262
				3577	7	17°258	4°267	3651	10	23°359	7°120	3725	9	21°998	11°886	3799	21	17°054	15°116
				3578*	27	17°541	4°400	3652	7	24°476	7°984	3726	14	23°719	11°717	3800	10	18°665	15°480
				3579	20	18°469	4°325	3653	7	25°395	7°265	3727	15	24°968	11°873	3801	9	19°930	15°137
				3580	12	19°528	4°838	3654	8	0°498	8°513	3728	8	0°479	12°442	3802	15	21°047	15°827
				3581	10	20°375	4°503	3655	24	2°605	8°442	3729	13	0°792	12°050	3803	9	21°953	15°293
				3582	13	21°313	4°217	3656	7	3°450	8°693	3730	11	2°540	12°047	3804	16	23°286	15°884
				3583	11	23°422	4°952	3657	25	3°885	8°936	3731	14	2°862	12°106	3805	7	23°687	15°799
				3584	18	25°689	4°689	3658	9	4°141	8°190	3732	7	3°700	12°360	3806	12	24°168	15°994
				3585	19	0°805	5°364	3659	22	4°185	8°510	3733	10	4°306	12°258	3807	10	3°114	16°264
				3586	13	0°987	5°446	3660	8	4°694	8°352	3734	11	5°064	12°244	3808	8	4°634	16°581
				3587	17	2°761	5°120	3661	9	7°975	8°223	3735	16	5°713	12°907	3809	8	8°773	16°115
				3588	10	3°419	5°171	3662	7	9°342	8°545	3736	12	6°075	12°116	3810	15	14°704	16°570
				3589	8	3°472	5°641	3663	20	10°123	8°945	3737	8	6°568	12°909	3811	11	18°366	16°964
				3590	10	3°667	5°085	3664	10	11°023	8°868	3738	9	6°700	12°201	3812	15	18°882	16°026
				3591	11	5°028	5°267	3665	9	12°104	8°695	3739	20	7°026	12°923	3813	10	18°936	16°824
				3592	10	5°109	5°530	3666	10	12°262	8°634	3740	15	7°105	12°788	3814	13	19°177	16°677
				3593	8	7°476	5°536	3667	12	14°888	8°564	3741	10	9°253	12°113	3815	14	21°874	16°634
				3594	10	8°479	5°159	3668	22	15°056	8°256	3742	8	10°134	12°784	3816	10	22°139	16°220
				3595	20	10°006	5°014	3669	12	15°694	8°483	3743	13	14°652	12°663	3817	8	22°800	16°703
				3596	11	11°426	5°342	3670	10	17°311	8°665	3744	8	15°794	12°726	3818	11	23°100	16°063
				3597*	31	11°576	5°838	3671	10	17°832	8°222	3745*	18	15°930	12°036	3819	12	23°290	16°647
				3598	10	11°855	5°920	3672	11	18°018	8°667	3746	10	16°273	12°868	3820	14	23°304	16°624
				3599	11	14°464	5°773	3673	20	20°174	8°310	3747	8	17°462	12°464	3821	12	24°481	16°471
				3600	14	14°672	5°780	3674	14	20°706	8°789	3748	12	19°446	12°937	3822	20	0°975	17°522
				3601	12	14°682	5°777	3675	12	21°040	8°964	3749	16	19°701	12°815	3823	12	6°113	17°057
				3602*	24	15°680	5°167	3676	13	21°052	8°894	3750	14	22°949	12°419	3824	13	7°340	17°571
				3603	13	18°012	5°967	3677	16	22°437	8°330	3751	18	24°227	12°661	3825	10	7°750	17°110
				3604	12	18°463	5°043	3678	14	23°626	8°344	3752	14	25°642	12°215	3826	13	7°766	17°048
				3605*	35	18°605	5°996	3679	10	25°870	8°725	3753	12	3°244	13°385	3827	7	9°377	17°304
				3606	11	21°396	5°245	3680	7	1°975	9°300	3754	10	7°196	13°884	3828	13	10°075	17°534
				3607	14	21°965	5°534	3681*	52	2°827	9°978	3755	14	7°895	13°294	3829	20	10°078	17°025
				3608	11	22°926	5°564	3682	15	3°072	9°139	3							

3834	13	14°330	17°775	3908	20	10°740	20°510	3982	7	1°512	23°698	4104	7	2°653	0°374	4178	8	7°325	4°933
3835	10	14°796	17°269	3909	15	11°320	20°734	3983	12	1°885	23°596	4105	8	3°107	0°154	4179	10	9°605	4°075
3836	13	15°186	17°107	3910	13	11°483	20°965	3984	12	4°614	23°825	4106*	31	5°619	0°670	4180	11	10°760	4°889
3837	7	16°773	17°307	3911	11	11°528	20°374	3985	16	5°821	23°116	4107	7	6°507	0°649	4181	8	10°993	4°263
3838	9	19°016	17°622	3912	11	12°726	20°927	3986	15	5°967	23°345	4108	6	7°188	0°084	4182	11	13°040	4°005
3839	20	19°034	17°889	3913	9	14°386	20°607	3987	13	6°875	23°394	4109	12	9°815	0°523	4183	13	14°025	4°488
3840	9	20°563	17°047	3914	7	14°486	20°343	3988	11	7°230	23°772	4110*	24	9°838	0°080	4184	22	15°418	4°554
3841*	27	21°044	17°286	3915	10	14°846	20°428	3989	10	7°703	23°527	4111*	25	10°035	0°725	4185	13	16°383	4°565
3842	16	23°849	17°625	3916	10	15°765	20°643	3990	7	12°934	23°046	4112	10	10°769	0°812	4186	12	18°624	4°533
3843	20	24°940	17°006	3917	17	16°921	20°192	3991	7	16°466	23°906	4113	5	11°682	0°782	4187	8	18°845	4°042
3844	19	2°439	18°064	3918	5	17°569	20°785	3992	9	19°674	23°674	4114	16	13°856	0°454	4188	10	19°265	4°357
3845	11	3°038	18°624	3919	10	18°204	20°240	3993	9	21°145	23°955	4115	11	13°875	0°881	4189	8	21°020	4°715
3846	10	3°237	18°900	3920	12	20°984	20°576	3994	8	24°654	23°802	4116	12	15°654	0°870	4190	8	22°925	4°376
3847	11	3°895	18°280	3921	10	22°000	20°451	3995	16	25°085	23°220	4117	12	16°173	0°044	4191	6	23°838	4°765
3848	7	4°717	18°510	3922	12	22°310	20°916	3996	14	25°136	23°366	4118	10	16°445	0°194	4192	8	25°866	4°024
3849	6	5°070	18°152	3923	10	22°619	20°967	3997	12	25°464	23°114	4119	11	21°591	0°633	4193	9	0°959	5°661
3850	10	6°396	18°265	3924	12	23°167	20°454	3998*	27	1°588	24°274	4120	20	21°993	0°484	4194	9	1°451	5°047
3851	11	6°536	18°694	3925	22	25°138	20°872	3999	11	2°103	24°076	4121	7	22°972	0°410	4195	15	5°697	5°143
3852	13	9°794	18°421	3926	13	1°172	21°619	4000	20	2°574	24°890	4122	17	0°834	1°219	4196	12	5°788	5°584
3853	24	10°880	18°087	3927	7	1°597	21°169	4001	10	2°717	24°036	4123	9	4°744	1°305	4197	8	6°095	5°668
3854	10	11°017	18°783	3928	9	2°089	21°806	4002	8	4°410	24°622	4124	8	5°075	1°237	4198	7	7°296	5°260
3855	8	11°243	18°149	3929	12	4°998	21°709	4003	10	4°867	24°791	4125	7	6°748	1°501	4199	26	14°024	5°915
3856	14	12°984	18°068	3930	12	5°228	21°013	4004	7	6°522	24°607	4126	12	8°100	1°995	4200	7	14°301	5°263
3857	9	13°007	18°079	3931	7	7°182	21°222	4005	6	6°880	24°854	4127	12	8°898	1°043	4201	12	14°469	5°585
3858	17	13°408	18°743	3932	16	7°683	21°387	4006	14	7°656	24°175	4128	6	10°603	1°722	4202	6	14°486	5°026
3859	14	13°656	18°862	3933	12	8°725	21°831	4007	14	8°700	24°986	4129	6	10°685	1°543	4203	23	15°553	5°215
3860	13	16°525	18°017	3934	9	9°002	21°319	4008	12	12°590	24°440	4130	16	11°204	1°365	4204	10	15°557	5°029
3861	10	17°455	18°716	3935*	21	12°258	21°327	4009	7	16°681	24°766	4131	24	13°794	1°344	4205	14	18°794	5°097
3862	12	18°131	18°218	3936	23	12°305	21°355	4010	7	21°926	24°394	4132*	73	13°816	1°360	4206	8	19°960	5°732
3863	6	18°846	18°302	3937	12	12°663	21°696	4011	8	22°590	24°734	4133	9	15°651	1°043	4207	7	24°698	5°672
3864	9	18°870	18°868	3938	18	13°106	21°190	4012	16	22°728	24°119	4134	7	16°951	1°570	4208	14	24°945	5°392
3865	10	19°124	18°079	3939	9	14°060	21°127	4013	19	23°420	24°470	4135	5	19°393	1°290	4209	13	25°048	5°767
3866*	23	19°740	18°794	3940	6	14°524	21°677	4014	8	24°456	24°562	4136	6	21°916	1°828	4210	12	3°067	6°955
3867	10	19°873	18°981	3941	5	15°810	21°332	4015	9	1°314	25°853	4137	16	22°210	1°545	4211	14	3°672	6°409
3868	12	19°917	18°537	3942	16	15°825	21°770	4016	11	2°096	25°185	4138	13	24°057	1°405	4212	13	4°237	6°955
3869	6	21°530	18°869	3943	16	16°464	21°869	4017	12	5°873	25°407	4139	7	25°436	1°794	4213	15	5°186	6°165
3870	17	21°577	18°380	3944	13	16°594	21°788	4018	11	7°127	25°056	4140	14	25°483	1°526	4214	10	9°193	6°226
3871	11	24°508	18°082	3945	9	16°620	21°803	4019	8	7°194	25°502	4141	5	25°599	1°739	4215	14	9°473	6°823
3872	10	0°974	19°355	3946	7	16°632	21°483	4020	12	7°987	25°481	4142	13	1°875	2°509	4216	8	10°196	6°476
3873	12	1°096	19°274	3947	11	22°238	21°129	4021	17	8°965	25°530	4143	11	2°559	2°450	4217	18	11°362	6°047
3874	14	3°817	19°995	3948	17	22°318	21°151	4022*	34	9°365	25°156	4144	17	3°081	2°764	4218	10	12°474	6°636
3875	7	5°635	19°387	3949	22	23°398	21°504	4023*	37	9°564	25°563	4145	5	5°266	2°844	4219	12	13°143	6°393
3876	10	6°639	19°257	3950	18	23°711	21°240	4024	13	11°240	25°968	4146	12	7°526	2°145	4220*	38	13°270	6°461
3877	11	9°419	19°587	3951	9	24°076	21°987	4025	8	12°483	25°577	4147	16	8°566	2°863	4221	14	16°319	6°240
3878	20	9°431	19°339	3952	12	0°214	22°072	4026	13	12°644	25°340	4148	16	9°600	2°085	4222	16	16°720	6°885
3879	8	10°330	19°750	3953	8	0°535	22°789	4027	12	13°225	25°566	4149	9	10°105	2°105	4223	16	19°073	6°058
3880	14	10°406	19°246	3954	8	1°514	22°624	4028	9	14°065	25°233	4150	13	12°694	2°083	4224	8	20°316	6°232
3881	20	10°541	19°897	3955	15	3°417	22°747	4029	13	22°070	25°194	4151	12	15°452	2°722	4225	9	21°506	6°206
3882	13	11°866	19°059	3956	14	3°470	22°813	4030*	26	22°345	25°324	4152	11	15°622	2°200	4226	8	21°835	6°794
3883	7	14°877	19°369	3957	20	3°680	22°470	4031	8	22°589	25°072	4153	13	17°975	2°736	4227	10	23°783	6°972
3884	10	15°077	19°240	3958	9	4°566	22°061					4154	9	18°219	2°084	4228	12	24°997	6°603
3885	9	15°146	19°278	3959	8	4°886	22°647					4155	10	18°988	2°567	4229	20	1°255	7°765
3886	20	16°437	19°540	3960	9	5°092	22°477					4156	23	20°627	2°527	4230	10	1°402	7°240
3887	15	16°540	19°264	3961*	49	6°049	22°107					4157	8	25°624	2°777	4231	9	1°404	7°218
3888	10	16°785	19°583	3962	16	7°491	22°214					4158	13	3°967	3°885	4232	8	3°442	7°351
3889	7	17°356	19°793	3963	13	7°672	22°759					4159	13	3°975	3°910	4233	9	5°510	7°166
3890	14	19°242	19°194	3964	8	7°768	22°059					4160	13	6°104	3°788	4234	9	7°590	7°674
3891	20	20°861	19°265	3965*	40	8°046	22°245					4161	12	6°135	3°833	4235	8	10°620	7°350
3892	14	21°366	19°910	3966	10	8°143	22°522					4162	18	6°719	3°439	4236	8	11°769	7°540
3893	12	21°850	19°844	3967	12	8°297	22°658					4163	6	6°880	3°139	4237	12	11°806	7°282
3894	13	22°019	19°286	3968	14	8°800	22°835					4164	12	10°626	3°245	4238	6	12°665	7°882
3895	15	22°390	19°356	3969	16	8°927	22°722					4165	8	11°776	3°491	4239	11	23°426	7°401
3896	12	22°435	19°627	3970	9	9°150	22°473					4166	12	12°389	3°023	4240	13	0°486	8°435
3897	8	23°812	19°222	3971	6	9°361	22°801					4167	14	12°938	3°109	4241	11	1°675	8°441
3898	7	24°805	19°040	3972	14	13°647	22°585					4168	13	13°297	3°714	4242	8	2°524	8°075
3899	16	24°839	19°057	3973	8	15°405	22°891					4169	5	14°740	3°039	4243	10	3°923	8°805
3900*	25	0°663	20°494	3974	8	15°493	22°989												

4252	17	18°790	8°420	4326	13	18°727	14°816	4400	9	17°956	18°450	4474*	26	23°600	22°115
4253	8	20°640	8°834	4327	12	21°256	14°057	4401	10	25°323	18°222	4475	16	3°225	23°308
4254	16	21°229	8°326	4328	7	21°707	14°697	4402	7	0°131	19°394	4476	15	3°276	23°454
4255	16	24°365	8°895	4329	6	21°883	14°286	4403	12	0°504	19°461	4477	12	3°603	23°199
4256	12	4°506	9°110	4330	14	1°380	15°983	4404	8	0°553	19°731	4478	10	3°975	23°916
4257	11	5°615	9°416	4331	12	5°234	15°064	4405	15	2°951	19°146	4479	16	4°657	23°250
4258	10	7°923	9°245	4332*	25	5°543	15°138	4406	12	4°954	19°352	4480	10	6°187	23°525
4259	11	11°115	9°244	4333	12	5°679	15°846	4407	7	6°095	19°689	4481	12	12°901	23°119
4260	7	11°488	9°957	4334	18	5°791	15°970	4408	8	6°648	19°852	4482*	38	13°251	23°950
4261	12	13°273	9°013	4335	7	8°838	15°303	4409	14	10°134	19°782	4483*	19	14°280	23°592
4262	15	13°646	9°716	4336	8	9°406	15°480	4410	5	11°588	19°827	4484*	18	14°340	23°479
4263	8	18°130	9°474	4337	6	10°416	15°513	4411	22	13°129	19°284	4485	16	15°485	23°547
4264	7	18°692	9°550	4338	13	14°807	15°360	4412	12	14°308	19°283	4486*	42	16°601	23°890
4265	20	18°875	9°946	4339	8	15°716	15°906	4413	16	15°575	19°984	4487	14	16°950	23°238
4266	7	22°260	9°587	4340	7	16°168	15°768	4414	7	16°302	19°314	4488	13	18°907	23°909
4267	18	22°400	9°104	4341*	37	20°139	15°722	4415	18	18°100	19°051	4489	12	20°015	23°092
4268	12	22°514	9°875	4342	7	21°076	15°730	4416	12	18°672	19°929	4490	15	20°680	23°711
4269	7	6°337	10°087	4343	14	21°533	15°072	4417	8	20°375	19°927	4491*	26	21°673	23°940
4270	9	7°307	10°559	4344	13	22°577	15°207	4418*	30	22°104	19°245	4492	12	0°870	24°213
4271	9	7°324	10°250	4345	11	22°725	15°487	4419	9	23°499	19°672	4493	16	1°566	24°567
4272	8	9°736	10°233	4346	14	23°346	15°973	4420	9	1°286	20°555	4494	7	2°606	24°654
4273	14	14°470	10°371	4347	6	25°772	15°320	4421	20	3°262	20°960	4495	14	8°126	24°097
4274	7	15°421	10°637	4348	10	1°386	16°746	4422	8	4°136	20°767	4496	8	8°672	24°516
4275	8	16°562	10°557	4349	11	1°401	16°720	4423*	22	5°130	20°743	4497	14	11°200	24°985
4276	9	16°600	10°297	4350	9	2°265	16°086	4424	8	5°377	20°513	4498	13	12°004	24°080
4277	19	18°076	10°374	4351	10	2°579	16°564	4425	13	7°759	20°165	4499	13	12°395	24°024
4278	14	18°408	10°484	4352	16	4°965	16°998	4426	13	9°193	20°591	4500	16	15°080	24°570
4279	20	21°586	10°475	4353	12	6°006	16°348	4427	18	9°794	20°486	4501	14	15°163	24°134
4280	16	22°307	10°369	4354*	30	7°105	16°744	4428	9	9°800	20°710	4502	10	17°288	24°608
4281	10	24°748	10°620	4355	16	7°689	16°510	4429	18	9°837	20°933	4503	6	17°920	24°718
4282	11	0°443	11°591	4356	14	8°964	16°223	4430	8	10°296	20°069	4504	6	18°182	24°536
4283	13	1°787	11°813	4357	7	11°780	16°583	4431	8	10°840	20°112	4505	8	20°198	24°117
4284	13	3°037	11°960	4358	22	11°904	16°326	4432	18	13°235	20°726	4506	10	22°919	24°037
4285*	53	4°444	11°966	4359	17	12°880	16°090	4433	12	14°213	20°291	4507*	40	25°666	24°026
4286	9	4°935	11°859	4360	12	13°154	16°953	4434	9	16°875	20°102	4508	7	0°219	25°300
4287	14	7°372	11°435	4361	15	13°290	16°963	4435	7	17°456	20°038	4509*	22	0°492	25°428
4288	13	9°570	11°278	4362*	42	14°770	16°417	4436	9	18°650	20°800	4510	13	5°690	25°015
4289*	40	12°720	11°959	4363	8	14°915	16°544	4437	12	19°967	20°185	4511	12	5°825	25°862
4290	9	14°659	11°772	4364	10	15°482	16°445	4438	7	20°047	20°667	4512	14	8°378	25°122
4291	12	23°263	11°044	4365	8	16°835	16°516	4439	14	21°528	20°085	4513	10	11°372	25°738
4292	13	1°021	12°519	4366	7	20°918	16°309	4440	7	0°435	21°025	4514	9	11°747	25°263
4293	17	2°304	12°753	4367	17	24°190	16°219	4441	14	0°444	21°256	4515	10	12°634	25°665
4294	14	3°718	12°298	4368	8	25°682	16°861	4442	7	0°742	21°069	4516	10	13°382	25°620
4295	18	4°221	12°853	4369	15	0°954	17°724	4443	21	1°525	21°601	4517	14	15°480	25°657
4296	9	11°290	12°277	4370	20	3°040	17°095	4444	17	1°835	21°335	4518	13	16°172	25°019
4297	16	11°398	12°110	4371	13	5°820	17°438	4445	9	7°027	21°090	4519	10	17°081	25°386
4298	20	12°827	12°324	4372	8	6°094	17°957	4446	7	8°812	21°573	4520	13	17°467	25°014
4299	15	15°233	12°428	4373	15	6°177	17°806	4447	17	10°579	21°586	4521*	35	17°497	25°547
4300	6	17°550	12°965	4374	10	8°230	17°832	4448*	36	13°777	21°407	4522	12	17°735	25°002
4301	10	22°628	12°199	4375	10	8°492	17°883	4449	9	14°195	21°625	4523	10	17°753	25°546
4302	10	22°934	12°207	4376	7	8°710	17°918	4450*	28	14°356	21°866	4524	22	18°625	25°056
4303	9	24°165	12°407	4377	6	11°445	17°242	4451	6	14°785	21°902	4525	17	19°488	25°574
4304	14	2°072	13°887	4378	10	13°557	17°638	4452	13	17°525	21°263	4526	10	21°659	25°867
4305	17	4°855	13°940	4379	9	13°976	17°867	4453	12	19°370	21°729	4527	10	22°546	25°366
4306	16	7°369	13°068	4380	15	15°550	17°866	4454	17	19°424	21°584	4528	10	22°772	25°314
4307	6	8°955	13°067	4381*	28	16°064	17°757	4455	6	19°605	21°330	4529	21	23°084	25°176
4308	9	11°888	13°697	4382	12	17°732	17°100	4456	20	23°501	21°629				
4309	6	15°144	13°382	4383	22	17°833	17°043	4457	10	25°557	21°575				
4310	13	16°057	13°944	4384	6	19°268	17°175	4458	17	3°840	22°640				
4311	18	17°538	13°319	4385	12	24°691	17°521	4459	7	4°780	22°301				
4312	7	19°192	13°546	4386	10	2°614	18°173	4460	19	5°559	22°558				
4313	10	1°890	14°902	4387	12	4°492	18°104	4461	14	6°389	22°543				
4314	17	3°259	14°275	4388	7	5°454	18°187	4462	16	7°227	22°800				
4315	22	3°300	14°640	4389	11	6°288	18°365	4463	10	8°240	22°674				
4316	10	4°016	14°130	4390	10	6°865	18°358	4464	12	10°722	22°868				
4317	6	6°300	14°959	4391	11	8°736	18°613	4465	11	14°695	22°397				
4318	12	8°206	14°955	4392	16	9°545	18°419	4466	16	15°517	22°348				
4319	12	10°492	14°240	4393	7	10°132	18°334	4467	16	16°160	22°674				
4320	9	12°230	14°512	4394*	24	11°300	18°494	4468	11	16°854	22°896				
4321	10	14°798	14°741	4395	10	12°323	18°679	4469	20	17°673	22°216				
4322	16	14°859	14°815	4396	25	13°505	18°867	4470	18	18°608	22°405				
4323	9	17°284	14°778	4397	14	13°810	18°632	4471	11	18°662	22°317				
4324	13	18°086	14°033	4398	9	14°236	18°685	4472	10	18°858	22°337				
4325	5	18°155	14°399	4399	22	16°627	18°034	4473	17	20°115	22°695				

R. A. 1^h 16^m

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Provisional Constants.

A	B	C
-00044	+00258	+5975

D	E	F
-00320	-00030	-2374

Mag. = 16.2 - 1.25√d

No.	d	x	y
4601	16	0°643	0°556
4602	7	4°745	0°166
4603	21	13°476	0°684
4604*	48	18°489	0°685
4605	10	25°010	0°908
4606	7	0°881	1°617
4607*	39	7°062	1°717
4608	9	12°960	1°943
4609	9	13°778	1°291
4610	9	14°987	1°358
4611	9	15°414	1°811
4612*	33	18°464	1°770
4613	6	23°703	1°130
4614	16	8°121	2°378
4615	20	9°535	2°086
4616	8	12°696	2°828
4617*	36	15°610	2°354

4657	7	10°054	8°779	4731	16	23°032	17°872	4957	24	22°666	5°147	5031	12	19°706	11°352
4658	15	10°489	8°462	4732	6	23°142	17°819	4958	21	24°234	5°740	5032	13	21°354	11°442
4659*	50	12°471	8°361	4733	12	7°440	18°939	4959	7	6°521	6°887	5033	7	22°396	11°224
4660	8	16°180	8°168	4734	14	8°238	18°530	4960	6	7°414	6°908	5034	14	22°441	11°660
4661	10	17°551	8°873	4735	16	10°081	18°888	4961	24	9°542	6°023	5035	8	23°051	11°959
4662	12	18°032	8°346	4736*	29	10°216	18°875	4962	5	10°490	6°541	5036	10	23°863	11°484
4663	13	19°947	8°118	4737	18	12°188	18°911	4963	8	10°824	6°040	5037	5	23°912	11°528
4664*	24	22°621	8°228	4738	12	17°525	18°257	4964	24	12°452	6°133	5038	18	25°337	11°841
4665	10	1°200	9°109	4739	15	17°657	18°786	4965	7	12°494	6°685	5039*	17	25°458	11°994
4666	8	5°117	9°755	4740	8	21°500	18°752	4966	24	12°551	6°720	5040	7	6°272	12°198
4667	6	9°815	9°338	4741	11	22°288	18°593	4967*	31	12°632	6°837	5041	14	7°343	12°059
4668	22	14°111	9°988	4742	6	25°326	18°642	4968	22	13°725	6°734	5042	19	8°869	12°089
4669*	28	14°228	9°449	4743	6	25°665	18°666	4969*	29	14°876	6°045	5043	7	11°179	12°967
4670	16	15°254	9°056	4744*	31	1°079	19°182	4970	11	15°103	6°109	5044	7	13°598	12°670
4671	11	15°549	9°942	4745*	35	5°180	19°586	4971	17	17°433	6°802	5045	10	16°965	12°577
4672	10	16°725	9°904	4746	9	9°164	19°572	4972	10	20°797	6°809	5046	8	23°198	12°643
4673	27	20°633	9°076	4747	17	10°324	19°037	4973	8	21°121	6°289	5047	9	24°362	12°567
4674	17	0°430	10°486	4748	6	10°596	19°105	4974	12	25°841	6°288	5048	10	4°419	13°953
4675	11	1°125	10°372	4749	13	10°885	19°272	4975	24	6°813	7°759	5049	7	6°650	13°880
4676	13	11°574	10°196	4750	6	11°673	19°333	4976	17	7°925	7°224	5050*	26	7°399	13°396
4677	8	14°706	10°425	4751	6	11°685	19°420	4977	7	10°508	7°246	5051	27	9°441	13°834
4678	6	18°467	10°840	4752	7	15°214	19°503	4978	11	12°978	7°725	5052	18	9°659	13°368
4679	8	23°375	10°894	4753	27	19°681	19°172	4979	7	14°173	7°616	5053	14	11°058	13°583
4680	22	10°009	11°341	4754	14	20°147	19°815	4980	18	15°369	7°124	5054	12	11°667	13°536
4681	7	13°428	11°408	4755	12	21°188	19°640	4981	14	16°727	7°196	5055	10	12°746	13°304
4682	10	21°042	11°250	4756	23	11°419	20°622	4982	6	18°101	7°382	5056	12	13°657	13°183
4683	10	7°355	12°013	4757*	21	15°276	20°145	4983	22	19°258	7°357	5057	9	13°791	13°062
4684	10	15°795	12°717	4758	8	18°785	20°495	4984	16	0°436	8°373	5058	14	14°108	13°997
4685	24	16°764	12°113	4759*	24	20°063	20°244	4985	13	5°446	8°480	5059	26	19°189	13°656
4686	13	17°913	12°779	4760*	35	25°327	20°715	4986	8	5°513	8°862	5060	15	19°347	13°403
4687	11	19°539	12°799	4761	7	25°720	20°023	4987	11	11°976	8°594	5061	8	22°711	13°936
4688	6	20°264	12°834	4762	14	25°812	20°819	4988	17	12°263	8°686	5062	11	24°332	13°667
4689	16	5°411	13°946	4763	22	2°498	21°522	4989	8	13°397	8°208	5063	24	25°813	13°264
4690	14	6°506	13°886	4764	7	4°538	21°431	4990	7	15°224	8°133	5064	6	2°262	14°305
4691	7	6°736	13°776	4765	7	6°763	21°294	4991	16	17°962	8°169	5065	19	3°060	14°962
4692	14	7°791	13°933	4766	9	9°566	21°622	4992	10	21°924	8°581	5066	14	7°582	14°993
4693	7	9°829	13°651	4767	22	13°449	21°137	4993	15	21°975	8°062	5067*	47	8°918	14°736
4694	15	13°711	13°083	4768	14	21°730	21°452	4994	15	22°249	8°873	5068	10	9°486	14°708
4695	7	13°763	13°246	4769*	28	2°604	22°004	4995	11	24°402	8°694	5069	7	9°695	14°613
4696*	31	14°127	13°774	4770	17	8°036	22°817	4996	13	25°524	8°885	5070	6	11°241	14°498
4697	7	17°347	13°639	4771	12	8°371	22°560	4997	7	4°392	9°283	5071	11	13°530	14°058
4698	11	21°536	13°912	4772	19	10°818	22°990	4998	8	4°956	9°418	5072	8	15°033	14°477
4699	14	7°376	14°004	4773	18	10°837	22°715	4999	9	8°304	9°666	5073	11	16°176	14°916
4700	7	12°052	14°253	4774	17	11°924	22°941	5000	7	8°431	9°207	5074	10	19°930	14°018
4701*	29	13°340	14°737	4775	11	13°470	22°348	5001	12	11°361	9°277	5075	10	20°478	14°834
4702	14	13°653	14°214	4776	7	13°540	22°949	5002	8	11°366	9°874	5076	9	20°757	14°217
4703	14	14°390	14°687	4777	10	15°798	22°424	5003	10	12°729	9°662	5077	16	21°066	14°167
4704	6	16°169	14°204	4778	6	19°711	22°315	5004*	58	12°919	9°844	5078	10	22°238	14°760
4705	7	20°012	14°475	4779	12	23°303	22°646	5005	7	15°777	9°311	5079	18	23°823	14°530
4706	6	24°359	14°190	4780	14	24°536	22°633	5006	8	18°044	9°507	5080	9	23°954	14°392
4707	15	25°142	14°861	4781	14	24°592	22°065	5007	10	20°842	9°319	5081	13	24°645	14°480
4708	8	2°252	15°915	4782	26	0°733	23°848	5008	9	21°347	9°187	5082	10	0°174	15°639
4709	14	9°326	15°837	4783*	57	4°685	23°864	5009	6	23°118	9°976	5083	9	1°386	15°229
4710*	23	17°639	15°141	4784	7	5°451	23°758	5010	21	24°463	9°734	5084	11	2°276	15°817
4711	11	20°199	15°021	4785	17	5°517	23°270	5011*	39	25°246	9°212	5085	16	6°471	15°424
4712	9	21°946	15°648	4786	20	10°687	23°600	5012	8	6°136	10°324	5086	15	6°755	15°945
4713*	21	22°245	15°486	4787	30	11°949	23°801	5013	10	7°700	10°115	5087	11	7°746	15°663
4714	7	23°249	15°390	4788	8	18°179	23°519	5014	7	9°031	10°693	5088	9	8°478	15°424
4715	10	23°460	15°099	4789	11	20°017	23°480	5015	13	10°822	10°311	5089*	35	9°175	15°410
4716	10	24°344	15°698	4790	12	23°319	23°812	5016	11	10°981	10°757	5090	5	10°189	15°839
4717	13	3°095	16°144	4791	13	12°792	24°445	5017	15	12°141	10°332	5091	5	10°223	15°857
4718	13	6°349	16°164	4792	25	12°957	24°296	5018	15	12°895	10°056	5092	14	11°157	15°248
4719	7	8°362	16°142	4793*	23	15°643	24°177	5019	24	19°177	10°843	5093	27	11°986	15°545
4720	14	10°347	16°740	4794	26	21°913	24°112	5020	11	19°371	10°348	5094	11	15°362	15°633
4721	8	16°732	16°298	4795*	35	23°286	24°885	5021	12	19°429	10°578	5095	6	15°475	15°912
4722	5	3°611	17°426	4796	18	2°143	25°050	5022	16	23°158	10°546	5096	7	16°111	15°181
4723	5	5°290	17°207	4797*	30	14°975	25°425	5023	15	23°302	10°124	5097	9	19°488	15°084
4724*	22	6°984	17°192	4798	17	15°898	25°680	5024*	46	6°713	11°841	5098	10	20°898	15°036
4725	6	7°224	17°477	4799	30	16°016	25°807	5025	6	9°613	11°915	5099	10	22°294	15°028
4726	5	7°560	17°551	4800*	47	16°701	25°179	5026	6	9°971	11°300	5100	13	24°516	15°651
4727	26	8°140	17°621	4801	18	17°838	25°587	5027	12	10°706	11°226	5101	16	5°485	16°407
4728	11	12°596	17°603					5028	10	12°339	11°989	5102	7	6°626	16°690
4729	6	13°602	17°119					5029	7	15°391	11°553	5103*	24	7°433	16°092
4730*	47	20°072	17°551					5030	9	19°377	11°684	5104	8	7°944	16°669

R. A. 1^h 24^m

Plate 2696; 1908 Nov. 9.

Provisional Constants.

A	B	C
-00014	+00442	+2017

D	E	F
-00426	-00019	-1930

Mag. = 16.2 - 1.25√d

No.	d	x	y
4901*	29	5°107	0°371
4902	11	6°553	0°269
4903	20	7°273	0°908
4904	7	8°791	0°648
4905	10	9°089	0°149
4906	6	9°435	0°203
4907	17	14°303	0°528
4908	11	16°276	0°363
4909	20	17°019	0°982
4910	9	24°996	0°438
4911	7	2°261	1°090
4912	14	2°704	1°016
4913	8	4°471	1°435
4914	7	9°111	1°635
4915	12	10°863	1°113
4916	8	13°236	1°609
4917	6	17°088	1°184
4918	13	0°557	2°867
4919	9	5°981	2°864
4920	14	6°413	2°823
4921	22	7°498	2°289
4922	13	7°527	2°386
4923	7	7°846	2°718
4924	18	11°587	2°153
4925	8	14°669	2°422
4926	13	16°698	2°933
4927	14	19°096	2°337
4928	22	6°669	3°891
4929	15	8°512	3°718
4930	10	12°794	3°742
4931	12	15°436	3°467
4932	17	16°471	3°527
4933	18	22°873	3°787
4934	26	0°479	4°833
4935	19	0°720	4°801
4936	7	2°841	4°781
4937	14	5°361	4°584
4938	9	5°644	4°378
4939	11	5°823	4°681
4940	14	7°010	4°691
4941	13	17°521	4°732
4942	5	18°426	4°697
4943	9	18°509	4°261
4944	18	20°231	4°922
4945	8	24°224	4°242
4946	27	25°136	4°724
4947	9	6°121	5°562
4948	10	6°383	5°903
4949	8	7°207	5°258
4950	16	7°839	5°499
4951	29	8°806	5°587
4952	15	8°825	5°536
4953	18	9°161	5°041
4954	10	17°650	5°368
4955	6	18°963	5°653
4956	13	21°132	5°211

5105	6	9.481	16.270	5179	13	19.159	23.608	5324	22	19.875	4.152	5398	6	21.097	14.379
5106	8	9.802	16.180	5180	13	20.339	23.146	5325	17	0.969	5.150	5399	15	22.770	14.468
5107	13	10.217	16.664	5181	17	20.359	23.124	5326	14	2.541	5.731	5400	8	2.899	15.643
5108	9	11.445	16.249	5182	6	21.054	23.757	5327	21	6.454	5.249	5401	15	5.284	15.161
5109	13	15.967	16.965	5183*	46	6.275	24.713	5328	12	14.574	5.287	5402*	16	6.925	15.006
5110	8	18.336	16.554	5184	13	8.386	24.313	5329	13	15.975	5.761	5403	13	23.374	15.910
5111	17	4.888	17.329	5185	7	8.631	24.894	5330	12	16.673	5.389	5404*	60	23.471	15.666
5112	12	5.796	17.028	5186	16	10.908	24.261	5331	8	4.154	6.270	5405	11	11.588	16.443
5113	8	8.525	17.831	5187	9	11.064	24.707	5332	10	7.044	6.926	5406	22	14.505	16.206
5114	9	9.438	17.670	5188	7	15.145	24.676	5333	9	8.967	6.197	5407	7	14.965	16.853
5115	13	10.059	17.786	5189*	46	16.862	24.299	5334	13	9.028	6.649	5408	10	15.801	16.845
5116	6	15.263	17.771	5190	20	18.946	24.803	5335	6	9.499	6.600	5409	10	16.436	16.438
5117*	60	16.344	17.505	5191	17	23.287	24.352	5336	14	10.227	6.865	5410	18	23.935	16.784
5118	9	18.235	17.934	5192	9	24.792	24.864	5337	10	12.461	6.431	5411	16	25.109	16.560
5119	8	18.731	17.569	5193*	30	24.941	24.606	5338	11	12.568	6.430	5412	6	3.780	17.485
5120	10	25.384	17.500	5194*	27	1.365	25.015	5339	17	16.151	6.085	5413	11	5.122	17.701
5121	11	3.304	18.743	5195	6	6.819	25.094	5340	10	19.661	6.522	5414	12	6.144	17.947
5122	9	3.647	18.761	5196	8	7.582	25.641	5341	21	6.152	7.966	5415	10	7.775	17.832
5123	14	5.340	18.295	5197	21	8.018	25.086	5342	12	6.589	7.367	5416	13	9.783	17.135
5124	19	6.559	18.733	5198	10	8.042	25.947	5343	13	14.276	7.584	5417	9	9.864	17.399
5125	6	6.751	18.887	5199	21	9.924	25.745	5344	14	15.919	7.563	5418	18	10.365	17.158
5126	12	12.541	18.322	5200	18	11.199	25.059	5345*	24	17.537	7.793	5419	6	13.784	17.990
5127	7	12.562	18.225	5201	24	11.221	25.604	5346	9	18.324	7.067	5420*	29	14.323	17.454
5128	7	14.176	18.061	5202	6	11.268	25.081	5347	7	19.828	7.718	5421	6	1.217	18.731
5129	15	17.516	18.692	5203	5	11.469	25.137	5348	10	22.168	7.209	5422	11	10.269	18.976
5130	11	22.640	18.551	5204	17	17.452	25.481	5349	9	22.545	7.194	5423	7	10.888	18.445
5131	14	22.810	18.728	5205	22	22.021	25.590	5350	5	22.610	7.151	5424	14	19.509	18.644
5132	6	6.819	19.029	5206	28	22.411	25.923	5351	17	23.280	7.223	5425	13	22.144	18.543
5133	17	7.868	19.099					5352	12	24.591	7.254	5426	12	0.763	19.154
5134	18	13.027	19.366					5353	9	3.854	8.867	5427	12	9.168	19.346
5135	8	17.345	19.712					5354	14	7.405	8.150	5428*	24	10.741	19.282
5136	14	19.829	19.845					5355	13	9.387	8.281	5429	11	15.768	19.470
5137	19	22.356	19.147					5356	12	10.461	8.311	5430	7	8.927	20.613
5138	9	24.168	19.471					5357	6	12.188	8.778	5431	8	12.690	20.986
5139*	34	3.342	20.815					5358*	44	13.114	8.679	5432	9	13.606	20.705
5140	11	3.725	20.116					5359	14	2.800	9.724	5433	14	23.503	20.224
5141	18	3.828	20.911					5360*	31	3.579	9.195	5434*	26	24.986	20.551
5142	18	7.191	20.632					5361	10	4.440	9.820	5435	15	11.140	21.096
5143	8	8.275	20.369					5362	12	9.095	9.080	5436	18	18.243	21.794
5144	9	8.384	20.681					5363	8	11.276	9.787	5437	7	18.382	21.449
5145	16	9.462	20.185					5364	6	14.081	9.300	5438	13	2.769	22.647
5146	15	9.709	20.540					5365	10	18.533	9.775	5439	8	10.500	22.606
5147	13	9.951	20.297					5366	20	19.261	9.876	5440	12	14.325	22.950
5148	13	11.035	20.534					5367	20	24.230	9.877	5441	16	17.594	22.526
5149	22	12.984	20.752					5368	24	24.666	9.523	5442	17	21.043	22.872
5150	8	18.623	20.397					5369	12	1.499	10.546	5443	13	21.832	22.244
5151	13	21.752	20.882					5370	11	1.638	10.123	5444	11	24.286	22.272
5152	26	4.110	21.858					5371	14	11.660	10.288	5445	10	6.578	23.953
5153	22	8.738	21.957					5372	11	15.189	10.760	5446	9	11.285	23.225
5154	9	11.104	21.456					5373	7	17.815	10.284	5447	7	11.376	23.439
5155	9	11.666	21.222					5374	9	25.295	10.577	5448	14	13.299	23.938
5156	22	14.758	21.610					5375*	16	3.691	11.825	5449	8	14.931	23.160
5157	7	15.563	21.244					5376*	15	3.814	11.977	5450*	24	16.686	23.996
5158	11	17.627	21.425					5377	13	8.583	11.591	5451	14	17.256	23.863
5159	15	2.584	22.745					5378	15	10.226	11.588	5452	11	21.266	23.920
5160	15	2.629	22.177					5379*	28	10.280	11.830	5453	9	1.735	24.351
5161	26	10.897	22.206					5380*	29	18.671	11.893	5454*	24	3.393	24.591
5162	17	12.576	22.280					5381	14	22.194	11.855	5455*	17	17.571	24.366
5163	8	13.064	22.955					5382	23	6.076	12.899	5456*	25	19.914	24.457
5164	23	14.254	22.549					5383	12	8.842	12.441	5457	6	21.579	24.035
5165	12	14.402	22.981					5384	7	12.848	12.299	5458*	22	24.863	24.079
5166	20	14.955	22.334					5385	11	15.320	12.509	5459	11	0.480	25.601
5167*	47	16.374	22.736					5386	21	4.177	13.244	5460	19	0.869	25.931
5168	16	17.246	22.582					5387	10	7.550	13.021	5461	7	8.041	25.939
5169	11	22.619	22.893					5388	11	15.341	13.690	5462	10	22.909	25.428
5170	18	24.333	22.654					5389	12	21.445	13.041	5463	23	24.340	25.916
5171	7	1.384	23.941					5390	6	21.992	13.450				
5172	28	4.369	23.164					5391	6	24.906	13.341				
5173	16	8.777	23.969					5392	15	2.198	14.526				
5174	23	9.774	23.996					5393	7	3.021	14.469				
5175	7	10.963	23.498					5394	16	5.783	14.950				
5176	23	11.367	23.430					5395	11	6.208	14.456				
5177	14	12.566	23.812					5396	10	16.305	14.924				
5178	10	15.721	23.442					5397	8	18.491	14.551				

R. A. 1^h 40^m

Plate 880; 1895 Oct. 2.

Provisional Constants.

A	B	C
+0.00766	+0.00421	-0.2792
D	E	F
-0.00441	+0.00747	-0.2176

Mag. = 15.8 - 1.25 \sqrt{d}

No.	d	x	y
5501	16	2.646	0.513
5502	8	7.695	0.270
5503	12	8.074	0.635
5504	16	12.946	0.749
5505	13	18.710	0.013
5506	7	18.842	0.124
5507	16	20.966	0.618
5508*	30	22.863	0.376
5509	7	24.190	0.202
5510	20	4.533	1.904
5511	6	4.595	1.394
5512	10	6.125	1.926
5513	14	6.695	1.459
5514	17	7.213	1.568
5515	14	7.434	1.899
5516	14	7.473	1.948
5517	14	14.337	1.356
5518	12	15.470	1.661
5519	6	19.664	1.951
5520	10	20.440	1.935
5521	7	1.743	2.055
5522	20	4.697	2.352
5523	14	4.742	2.908
5524	14	4.822	2.476
5525	17	6.606	2.519
5526*	31	11.035	2.615
5527	15	15.387	2.627
5528	9	16.877	2.966
5529	13	16.925	2.795
5530	6	17.506	2.079
5531	8	17.849	2.223
5532	14	20.074	2.661
5533	8	22.805	2.524
5534*	45	23.569	2.932
5535	5	23.748	2.196
5536	7	0.638	3.328
5537	9	0.776	3.054
5538	14	1.265	3.907
5539	13	2.357	3.335
5540	12	2.391	3.925
5541	7	3.586	3.122
5542	6	4.539	3.236
5543	11	6.306	3.755
5544	16	8.367	3.944
5545	5	9.140	3.353
5546	7	11.651	3.300
5547	14	13.192	3.386
5548	15	13.484	3.654
5549	24	15.616	3.591
5550	5	19.436	3.722
5551	7	19.720	3.762
5552*	44	22.757	3.456
5553	8	24.208	3.280
5554*	24	24.490	3.866
5555	9	1.756	4.996
5556	15	4.765	4.356

5557	16	5°376	4°456	5631	9	14°010	9°189	5705*	21	10°119	16°045	5779*	42	16°886	20°894
5558	7	7°843	4°755	5632	10	20°346	9°565	5706	18	10°571	16°157	5780	21	18°596	20°229
5559	6	8°643	4°865	5633	10	21°517	9°362	5707*	45	10°757	16°405	5781	22	18°713	20°757
5560	13	9°450	4°343	5634	8	22°665	9°536	5708	14	10°935	16°412	5782	12	21°368	20°744
5561	14	9°884	4°674	5635	7	1°274	10°879	5709	20	12°332	16°022	5783	10	2°113	21°790
5562	6	11°809	4°405	5636	13	2°940	10°663	5710	8	13°273	16°197	5784	18	7°535	21°808
5563	6	11°874	4°456	5637*	23	5°056	10°437	5711	23	16°525	16°914	5785	8	7°885	21°446
5564*	29	13°436	4°864	5638	10	5°919	10°116	5712	10	18°095	16°396	5786	10	10°452	21°348
5565*	36	14°128	4°170	5639	7	12°667	10°045	5713	7	18°484	16°320	5787	7	10°914	21°906
5566	6	14°308	4°542	5640	12	14°544	10°676	5714*	27	24°742	16°713	5788	9	12°949	21°412
5567	9	15°070	4°448	5641	5	14°926	10°305	5715	8	2°100	17°063	5789	5	16°524	21°655
5568	14	15°889	4°494	5642	7	15°247	10°766	5716	9	3°299	17°167	5790	6	17°480	21°848
5569	12	18°617	4°110	5643*	22	16°300	10°099	5717	19	4°215	17°305	5791	5	17°530	21°410
5570	15	4°914	5°259	5644	12	17°616	10°964	5718	9	5°816	17°304	5792	18	17°655	21°101
5571	13	5°808	5°768	5645	5	20°548	10°903	5719	11	6°629	17°124	5793	14	17°693	21°956
5572	14	11°692	5°307	5646	6	20°919	10°306	5720	11	8°263	17°856	5794*	36	20°167	21°954
5573	12	13°307	5°457	5647	6	21°386	10°073	5721	12	9°107	17°607	5795	13	20°806	21°546
5574	13	14°818	5°996	5648	7	21°696	10°396	5722	5	9°304	17°966	5796	16	21°136	21°771
5575	9	23°717	5°330	5649	16	22°794	10°967	5723	14	11°152	17°164	5797	14	21°696	21°561
5576	6	0°894	6°361	5650	18	24°181	10°722	5724	6	11°337	17°259	5798	13	23°001	21°242
5577	5	1°796	6°484	5651	6	0°299	11°685	5725	11	11°775	17°867	5799	25	23°465	21°070
5578	12	4°752	6°689	5652	8	0°378	11°628	5726	15	13°125	17°203	5800	14	23°508	21°612
5579	14	8°033	6°115	5653	9	3°145	11°919	5727	9	13°649	17°875	5801	13	24°775	21°136
5580	20	8°585	6°610	5654	7	4°487	11°556	5728	8	15°409	17°275	5802	14	2°176	22°476
5581	10	10°885	6°617	5655	12	6°108	11°767	5729	20	15°924	17°222	5803	10	6°055	22°795
5582	6	11°333	6°329	5656	18	10°406	11°444	5730*	42	16°105	17°900	5804	14	8°408	22°130
5583	14	12°838	6°924	5657	10	12°229	11°701	5731	14	16°345	17°525	5805	18	8°950	22°506
5584	10	13°807	6°605	5658	18	18°294	11°024	5732	9	16°713	17°096	5806	14	9°554	22°655
5585	14	16°663	6°815	5659	15	21°428	11°141	5733	10	19°870	17°617	5807	9	13°014	22°223
5586*	20	16°926	6°010	5660	6	21°934	11°679	5734	8	20°069	17°123	5808	10	13°252	22°466
5587	12	18°219	6°060	5661	7	22°785	11°258	5735	8	21°482	17°557	5809	9	13°724	22°614
5588	8	19°765	6°295	5662	10	24°385	11°124	5736	10	22°232	17°016	5810	8	17°265	22°436
5589	18	23°175	6°380	5663	12	5°053	12°614	5737	7	23°248	17°913	5811	14	21°058	22°736
5590	11	0°095	7°315	5664	10	9°115	12°796	5738	8	23°789	17°635	5812	11	22°242	22°455
5591	6	0°159	7°275	5665	8	13°256	12°977	5739	7	25°002	17°126	5813	5	23°056	22°715
5592	19	0°832	7°328	5666	14	14°654	12°919	5740	10	7°885	18°613	5814	10	24°726	22°425
5593	14	2°157	7°331	5667*	20	19°576	12°640	5741	8	8°229	18°033	5815	20	25°305	22°160
5594	7	3°094	7°514	5668	10	2°607	13°458	5742	6	8°456	18°095	5816	8	3°089	23°119
5595	13	3°716	7°635	5669	11	7°672	13°287	5743	10	8°689	18°508	5817	12	7°913	23°550
5596	11	4°398	7°564	5670	16	7°999	13°755	5744	17	8°868	18°901	5818	12	7°960	23°528
5597	10	5°743	7°706	5671	8	12°531	13°945	5745	15	9°059	18°522	5819	16	11°859	23°649
5598	20	5°914	7°001	5672	11	18°382	13°333	5746	8	10°379	18°483	5820	12	11°917	23°974
5599	19	7°574	7°909	5673	14	18°556	13°765	5747	7	13°148	18°575	5821*	38	13°557	23°686
5600	14	7°946	7°700	5674	14	19°493	13°344	5748	5	13°931	18°900	5822	18	19°274	23°225
5601	6	8°518	7°648	5675	17	0°481	14°638	5749	22	15°570	18°486	5823	12	19°650	23°933
5602	10	10°064	7°200	5676	9	3°095	14°541	5750	8	16°574	18°986	5824	12	21°201	23°719
5603	12	10°286	7°659	5677	7	4°511	14°340	5751	6	18°722	18°160	5825	8	21°538	23°373
5604*	37	13°570	7°164	5678*	22	6°657	14°498	5752	18	20°250	18°065	5826	5	22°188	23°703
5605	17	14°883	7°956	5679	8	11°208	14°075	5753	12	22°958	18°880	5827*	24	2°800	24°282
5606	12	19°600	7°286	5680	16	13°258	14°674	5754	15	24°471	18°739	5828	6	3°266	24°516
5607	8	23°785	7°743	5681	22	13°340	14°420	5755	10	24°966	18°208	5829	13	8°939	24°977
5608	17	25°958	7°540	5682	12	18°855	14°022	5756	8	1°477	19°767	5830*	26	11°483	24°912
5609	11	1°426	8°946	5683	20	20°378	14°398	5757	7	3°420	19°297	5831	6	13°238	24°488
5610	10	4°124	8°573	5684*	56	1°206	15°829	5758	14	5°009	19°935	5832	5	15°096	24°682
5611	7	4°432	8°089	5685	14	1°220	15°860	5759	6	5°096	19°765	5833	7	15°635	24°485
5612	11	4°499	8°145	5686	18	13°015	15°282	5760	7	5°765	19°875	5834*	29	17°375	24°087
5613	14	9°045	8°539	5687	8	13°394	15°814	5761	18	9°136	19°315	5835	10	22°704	24°928
5614	12	9°198	8°064	5688	14	13°707	15°330	5762	8	18°278	19°058	5836*	74	23°370	24°610
5615	27	9°249	8°717	5689	18	14°237	15°160	5763	11	18°395	19°895	5837	16	25°183	24°738
5616	10	10°886	8°124	5690	6	15°742	15°746	5764	12	18°689	19°380	5838	13	0°864	25°682
5617	8	11°240	8°212	5691	6	17°762	15°504	5765	12	18°912	19°195	5839	9	7°623	25°493
5618	24	15°304	8°001	5692	6	18°862	15°542	5766	8	21°126	19°917	5840	10	9°782	25°749
5619	6	18°299	8°086	5693	8	19°166	15°839	5767	15	23°574	19°001	5841	10	10°010	25°225
5620	7	19°167	8°700	5694	9	21°059	15°335	5768	17	1°344	20°425	5842	13	12°095	25°063
5621	8	24°735	8°735	5695*	34	24°713	15°839	5769	9	2°193	20°258	5843	12	13°778	25°038
5622	20	1°850	9°983	5696	16	1°117	16°080	5770	6	2°426	20°251	5844	12	15°593	25°906
5623	26	2°284	9°615	5697	10	1°297	16°496	5771*	28	2°850	20°725	5845	5	17°659	25°918
5624	7	2°530	9°498	5698	19	1°706	16°947	5772	16	4°210	20°864	5846*	14	21°744	25°003
5625	8	2°859	9°516	5699	18	2°884	16°696	5773	14	4°221	20°863	5847	13	25°580	25°844
5626	10	3°227	9°234	5700	10	3°413	16°373	5774	16	8°321	20°043				
5627	7	3°967	9°404	5701	6	5°172	16°217	5775	5	12°176	20°655				
5628	13	6°252	9°321	5702	8	8°456	16°596	5776	14	12°375	20°273				
5629	15	9°760	9°045	5703	7	8°800	16°745	5777	14	13°685	20°487				
5630	9	13°606	9°318	5704	7	9°036	16°818	5778	7	16°044	20°738				

R. A. 1^h 48^m

Plate 2726; 1909 Feb. 22.

Provisional Constants.

A	B	C
-00040	-00263	+3402

D	E	F
+00193	-00049	-3174

Mag. = 15.5 - 1.25√d

No.	d	x	y
5901*	24	1°369	0°383
5902	13	19°269	0°218
5903	9	19°387	0°079
5904	6	22°574	0°695
5905*	44	2°093	2°921
5906*	53	6°875	2°597
5907	16	12°368	2°866
5908	15	16°003	2°438
5909*	45	1°291	3°446
5910*	21	3°013	3°840
5911	22	8°841	3°189
5912*	26	22°844	3°717</

(19)

6379	10	3°824	16°246	6453	16	11°828	19°759	6527	10	23°528	22°959	6606	7	15°534	0°809	6680	20	11°825	6°118
6380	12	3°889	16°105	6454	11	12°059	19°514	6528	15	25°378	22°184	6607	8	21°483	0°933	6681	7	11°852	6°036
6381*	34	4°098	16°534	6455	12	14°270	19°219	6529	14	25°855	22°867	6608	9	2°669	1°137	6682	5	17°017	6°428
6382	16	5°201	16°524	6456	9	14°564	19°178	6530	6	4°766	23°833	6609	24	4°736	1°129	6683	9	19°018	6°157
6383	12	5°770	16°994	6457	8	14°722	19°910	6531	8	5°464	23°594	6610	18	5°655	1°748	6684	11	20°433	6°358
6384	12	6°004	16°139	6458	15	15°862	19°761	6532	14	9°153	23°889	6611	10	6°966	1°609	6685	6	24°876	6°843
6385	14	7°136	16°529	6459	14	15°960	19°445	6533	6	9°236	23°533	6612	12	10°357	1°278	6686	6	2°524	7°280
6386	12	8°540	16°409	6460	20	17°812	19°105	6534	13	10°102	23°113	6613	13	10°913	1°179	6687	26	2°806	7°934
6387	15	9°518	16°798	6461	17	19°679	19°011	6535	12	10°582	23°060	6614	7	16°960	1°647	6688	16	3°483	7°053
6388	17	9°563	16°263	6462	13	20°039	19°925	6536	10	12°133	23°650	6615*	40	18°112	1°410	6689	11	9°065	7°059
6389	14	11°434	16°248	6463	5	22°826	19°839	6537	11	12°176	23°668	6616	10	18°216	1°291	6690	9	9°204	7°130
6390	14	11°510	16°971	6464	26	25°838	19°182	6538	12	12°232	23°765	6617	11	20°796	1°621	6691	28	10°299	7°772
6391	7	12°563	16°885	6465	5	0°830	20°243	6539	22	12°817	23°039	6618	9	21°130	1°819	6692	8	10°989	7°684
6392	7	12°700	16°719	6466	6	2°073	20°516	6540	14	12°862	23°250	6619	7	22°167	1°534	6693	21	12°063	7°699
6393	16	14°731	16°150	6467	12	2°966	20°935	6541	8	15°798	23°050	6620	24	1°832	2°613	6694	16	14°021	7°062
6394	7	18°684	16°203	6468	14	3°084	20°013	6542	8	16°079	23°766	6621	13	5°444	2°330	6695	9	14°063	7°374
6395	6	18°720	16°082	6469	13	4°018	20°166	6543	10	16°966	23°016	6622	5	12°477	2°218	6696*	32	16°482	7°429
6396	12	19°594	16°975	6470	18	4°256	20°003	6544	15	17°050	23°207	6623	21	15°590	2°132	6697	9	20°505	7°429
6397	13	22°094	16°835	6471	7	4°608	20°146	6545	8	19°903	23°871	6624	14	15°613	2°198	6698	19	22°500	7°880
6398	8	24°486	16°674	6472*	18	5°645	20°874	6546	17	22°969	23°930	6625	6	17°050	2°789	6699	8	22°581	7°433
6399	8	24°642	16°624	6473	8	6°204	20°975	6547	18	23°978	23°847	6626	5	17°531	2°504	6700	9	22°924	7°680
6400	11	25°775	16°064	6474	13	7°642	20°388	6548	5	25°924	23°060	6627	13	18°497	2°449	6701	24	24°885	7°692
6401	22	0°790	17°655	6475	16	8°995	20°225	6549	14	1°486	24°745	6628	5	21°329	2°935	6702	16	1°166	8°056
6402*	22	0°905	17°296	6476	12	9°131	20°059	6550*	25	3°110	24°965	6629	28	9°274	3°960	6703*	50	2°761	8°771
6403	10	2°557	17°485	6477	7	11°575	20°745	6551	9	6°315	24°495	6630	10	12°116	3°572	6704	24	3°578	8°930
6404	18	3°463	17°055	6478*	30	17°001	20°050	6552	8	9°775	24°538	6631	30	15°414	3°098	6705*	57	4°047	8°335
6405	6	4°803	17°250	6479	10	20°114	20°616	6553	11	11°885	24°388	6632	7	16°021	3°813	6706	28	4°855	8°026
6406	12	5°020	17°005	6480	14	20°520	20°550	6554	11	12°723	24°543	6633	13	18°480	3°380	6707	8	6°318	8°189
6407	15	9°287	17°582	6481	7	21°172	20°462	6555	9	12°790	24°056	6634	6	18°936	3°661	6708	5	6°405	8°190
6408	10	12°449	17°783	6482	13	21°479	20°142	6556	8	14°091	24°026	6635	8	21°953	3°068	6709	6	6°745	8°261
6409	6	13°213	17°510	6483	5	22°838	20°818	6557	13	21°895	24°846	6636	15	23°294	3°608	6710	6	8°696	8°548
6410	10	14°616	17°485	6484	14	0°185	21°604	6558	12	25°449	24°487	6637	6	24°465	3°509	6711	5	12°165	8°686
6411	8	15°016	17°649	6485	11	3°756	21°876	6559	10	25°539	24°336	6638	7	6°043	4°531	6712	8	12°357	8°663
6412	14	15°075	17°595	6486	8	5°997	21°495	6560	5	25°963	24°745	6639	18	6°238	4°786	6713	27	12°632	8°124
6413	5	16°178	17°939	6487	5	6°412	21°828	6561	8	3°037	25°856	6640	12	6°524	4°356	6714	15	13°906	8°885
6414	9	18°688	17°054	6488	11	6°898	21°632	6562	11	7°598	25°589	6641	14	7°454	4°111	6715	9	14°073	8°192
6415	16	19°976	17°458	6489	16	10°218	21°652	6563	12	8°819	25°768	6642	12	9°446	4°650	6716	5	14°117	8°635
6416	15	20°041	17°785	6490	16	13°649	21°440	6564	15	10°187	25°383	6643*	45	9°580	4°872	6717	8	18°205	8°553
6417	17	23°549	17°793	6491*	24	14°015	21°855	6565	16	11°119	25°798	6644	18	10°204	4°808	6718	10	18°303	8°189
6418	12	24°653	17°515	6492	10	14°856	21°305	6566	7	17°449	25°843	6645*	32	10°873	4°773	6719	16	19°736	8°688
6419	10	24°979	17°214	6493*	16	15°463	21°480	6567	13	17°645	25°485	6646*	40	11°207	4°975	6720	7	20°793	8°759
6420	12	25°356	17°311	6494	11	16°595	21°887	6568	40	17°937	25°507	6647	7	13°792	4°601	6721	10	22°207	8°249
6421	6	1°233	18°622	6495	13	19°725	21°999	6569	14	18°562	25°104	6648	22	14°458	4°474	6722	13	3°467	9°699
6422	13	3°829	18°510	6496	7	19°887	21°150	6570	19	19°885	25°846	6649	10	14°547	4°063	6723	7	4°066	9°673
6423	7	4°778	18°070	6497	18	21°650	21°135	6571	9	20°646	25°615	6650	20	15°707	4°677	6724	10	10°607	9°674
6424	16	5°404	18°270	6498	24	23°494	21°212	6572	8	23°575	25°458	6651	8	16°373	4°758	6725	11	10°797	9°919
6425	15	6°159	18°046	6499	12	25°059	21°297					6652	22	19°350	4°939	6726	14	11°058	9°127
6426	9	6°505	18°399	6500*	15	1°032	22°660					6653	14	21°255	4°685	6727	11	14°364	9°171
6427	12	7°500	18°762	6501	18	1°109	22°694					6654	14	21°679	4°762	6728	23	16°168	9°857
6428	17	7°897	18°490	6502	8	1°788	22°549					6655	9	21°696	4°661	6729	10	18°991	9°520
6429	6	11°469	18°266	6503*	18	2°897	22°733					6656	13	21°745	4°917	6730	13	19°243	9°191
6430	14	12°213	18°076	6504	8	3°957	22°864					6657	14	22°573	4°578	6731	12	20°184	9°393
6431	14	12°281	18°591	6505*	26	4°479	22°266					6658	6	0°470	5°456	6732	7	20°568	9°182
6432	12	14°922	18°845	6506	19	4°525	22°197					6659	12	2°544	5°295	6733	7	23°121	9°175
6433*	68	18°362	18°222	6507	6	4°748	22°226					6660	7	6°342	5°192	6734	6	2°377	10°394
6434	13	19°183	18°700	6508	6	7°308	22°568					6661	9	10°928	5°464	6735	24	3°346	10°990
6435	18	19°471	18°801	6509	13	8°320	22°201					6662	5	11°675	5°254	6736	7	4°965	10°329
6436	10	19°780	18°579	6510	7	8°360	22°526					6663*	45	12°559	5°103	6737	7	8°601	10°307
6437	8	20°090	18°926	6511	6	8°426	22°413					6664	22	13°261	5°489	6738	11	11°564	10°920
6438*	43	20°289	18°045	6512*	19	10°596	22°339					6665	20	13°866	5°911	6739	10	11°893	10°094
6439	19	21°166	18°708	6513	5	12°598	22°325					6666	19	15°885	5°542	6740*	39	12°036	10°903
6440	9	21°418	18°525	6514	6	14°118	22°600					6667	8	19°335	5°777	6741	9	13°330	10°474
6441	12	22°329	18°249	6515	5	14°239	22°520					6668	5	19°557	5°351	6742	8	14°068	10°278
6442	17	25°503	18°025	6516	7	14°264	22°631					6669	27	20°918	5°332	6743	13	14°195	10°464
6443	10	0°525	19°077	6517	8	15°134	22°616					6670	7	21°435	5°231	6744	11	15°435	10°818
6444	20	1°650	19°539	6518	5	18°379	22°808					6671	9	23°271	5°293	6745	18	18°175	10°869
6445	14	2°214	19°355	6519	10	18°873	22°465					6672	26	0°815	6°925	6746	6		

6754	11	16.426	11.112	6828	8	3.216	16.641	6902	9	5.875	21.961	6976	12	23.178	25.702	7049	8	4.268	8.506
6755	7	16.928	11.007	6829	9	4.337	16.082	6903	7	7.591	21.525	6977	14	24.216	25.116	7050	25	6.146	8.437
6756	10	17.377	11.507	6830	14	5.031	16.841	6904	7	7.744	21.668	6978	23	24.982	25.215	7051	8	6.313	8.557
6757	7	21.966	11.851	6831	8	7.555	16.719	6905	11	7.820	21.949	6979	13	25.964	25.524	7052	9	6.373	8.845
6758	11	22.349	11.688	6832	25	8.043	16.346	6906	18	9.552	21.793					7053	6	7.098	8.114
6759*	37	23.343	11.753	6833	9	13.636	16.464	6907	5	10.264	21.162					7054	5	7.854	8.314
6760	12	23.412	11.390	6834	13	20.648	16.071	6908	16	11.096	21.605					7055*	10	8.406	8.113
6761	7	24.119	11.423	6835	17	22.796	16.119	6909	18	11.269	21.299					7056	6	10.826	8.705
6762*	34	24.134	11.562	6836	20	25.158	16.288	6910	11	12.889	21.289					7057	8	11.371	8.269
6763	9	24.382	11.636	6837	19	2.137	17.806	6911*	37	13.828	21.530					7058	30	13.024	8.955
6764	19	2.683	12.218	6838	11	3.230	17.526	6912	14	17.666	21.733					7059	6	14.106	8.592
6765	14	3.545	12.684	6839	8	3.556	17.228	6913	21	17.880	21.062					7060	12	17.988	8.780
6766	12	4.847	12.488	6840	12	3.930	17.320	6914	8	19.079	21.994					7061	7	18.435	8.179
6767	9	7.355	12.470	6841	12	4.764	17.884	6915	14	19.686	21.897					7062	10	3.777	9.230
6768	22	7.700	12.171	6842*	60	5.282	17.000	6916	18	21.302	21.540					7063	5	4.346	9.793
6769	5	9.045	12.955	6843	12	7.396	17.222	6917	22	25.033	21.570					7064	14	5.253	9.926
6770	7	9.068	12.996	6844	24	17.048	17.274	6918	21	0.084	22.196					7065	14	9.407	9.407
6771	7	11.142	12.127	6845	12	23.025	17.588	6919	7	2.142	22.933					7066	6	21.697	9.580
6772	22	11.788	12.244	6846	16	25.505	17.986	6920	15	3.974	22.154					7067	17	0.425	10.754
6773	7	13.098	12.173	6847	6	25.639	17.588	6921	15	4.454	22.830					7068	26	1.514	10.725
6774	8	15.271	12.977	6848	7	0.932	18.268	6922	9	5.821	22.083					7069	8	6.724	10.444
6775	12	20.055	12.565	6849	17	4.079	18.030	6923*	57	5.838	22.902					7070	10	10.134	10.382
6776*	33	20.192	12.246	6850	9	6.577	18.668	6924	13	6.627	22.258					7071	5	21.316	10.972
6777	11	23.538	12.840	6851	13	7.036	18.309	6925	13	7.441	22.045					7072	6	22.615	10.876
6778	6	24.401	12.779	6852	12	8.264	18.813	6926	8	7.510	22.869					7073	7	1.050	11.689
6779	7	1.549	13.220	6853	20	10.892	18.126	6927	38	8.681	22.529					7074*	31	1.775	11.845
6780	7	5.368	13.024	6854*	49	12.223	18.399	6928	8	9.768	22.951					7075	5	2.054	11.050
6781	5	7.697	13.693	6855*	95	12.572	18.348	6929	15	10.624	22.491					7076	6	4.873	11.186
6782	9	7.987	13.104	6856	16	12.756	18.595	6930	15	13.799	22.469					7077	6	12.461	11.107
6783	27	8.220	13.965	6857	6	15.170	18.741	6931	6	16.471	22.322					7078	18	18.383	11.025
6784	8	9.013	13.360	6858	13	16.093	18.604	6932	7	16.584	22.996					7079	7	25.796	11.167
6785	9	9.724	13.373	6859*	60	17.394	18.341	6933	7	17.473	22.892					7080*	38	0.994	12.056
6786	10	10.492	13.838	6860	6	23.858	18.633	6934	5	17.614	22.616					7081	24	9.905	12.872
6787	25	11.835	13.919	6861	34	4.416	19.175	6935	6	18.792	22.206					7082	5	10.436	12.915
6788	6	16.238	13.459	6862	17	4.678	19.568	6936	10	19.498	22.643					7083	6	12.907	12.366
6789	7	19.785	13.736	6863	6	5.588	19.343	6937	24	20.404	22.673					7084	6	25.465	12.844
6790	10	19.972	13.073	6864	22	7.089	19.212	6938	12	21.126	22.228					7085	6	1.210	13.135
6791	14	21.897	13.905	6865	20	8.206	19.727	6939	9	22.364	22.848					7086	17	3.493	13.572
6792	11	22.399	13.165	6866	10	8.395	19.381	6940	11	24.106	22.739					7087	6	10.082	13.467
6793	9	22.837	13.989	6867	9	9.294	19.948	6941	8	24.989	22.914					7088	7	15.024	13.804
6794	25	25.809	13.327	6868	8	10.173	19.071	6942	14	1.592	23.900					7089	7	15.361	13.886
6795	26	0.237	14.982	6869	17	13.214	19.805	6943	18	2.598	23.812					7090*	58	17.805	13.575
6796	14	0.615	14.553	6870	13	13.632	19.614	6944	11	10.622	23.294					7091	7	18.585	13.004
6797	12	1.998	14.082	6871	9	14.737	19.624	6945	19	12.706	23.554					7092*	28	20.404	13.185
6798	6	5.530	14.173	6872	11	15.256	19.917	6946	27	13.519	23.479					7093	6	23.257	13.780
6799	13	7.517	14.084	6873	21	15.563	19.597	6947	24	16.631	23.352					7094	9	23.328	13.581
6800	14	8.108	14.355	6874	16	17.311	19.810	6948	12	16.670	23.612					7095	9	24.822	13.432
6801	14	9.700	14.118	6875	8	17.313	19.799	6949	23	20.664	23.600					7096	7	0.095	14.744
6802	11	11.449	14.452	6876	11	18.341	19.474	6950	23	21.236	23.435					7097*	62	1.868	14.638
6803	18	13.537	14.749	6877	7	18.800	19.979	6951	14	21.882	23.433					7098	8	5.478	14.923
6804	14	13.958	14.962	6878	21	21.454	19.109	6952	18	23.300	23.108					7099	7	7.277	14.837
6805	12	15.631	14.018	6879	9	21.645	19.945	6953	24	23.465	23.599					7100	16	11.242	14.973
6806	16	17.876	14.574	6880	6	22.652	19.690	6954	13	23.593	23.595					7101	5	14.359	14.106
6807	13	19.395	14.696	6881	23	23.238	19.609	6955	14	23.967	23.711					7102	8	15.794	14.627
6808	8	20.378	14.974	6882	8	23.767	19.802	6956	29	25.746	23.824					7103	5	25.123	14.181
6809	14	22.388	14.420	6883	6	0.096	20.149	6957	12	4.056	24.441					7104	6	2.105	15.966
6810	8	23.279	14.138	6884	21	4.861	20.087	6958	9	4.142	24.291					7105	5	2.774	15.212
6811*	59	24.164	14.358	6885	27	7.904	20.381	6959	13	7.223	24.737					7106	7	3.230	15.448
6812	9	25.056	14.949	6886	6	8.699	20.893	6960	5	7.417	24.526					7107	5	9.915	15.113
6813	16	2.726	15.921	6887	6	11.106	20.014	6961	25	11.765	24.882					7108	8	13.236	15.038
6814*	82	5.576	15.490	6888	7	11.489	20.889	6962*	44	13.688	24.880					7109	7	14.545	15.069
6815	12	5.884	15.367	6889	11	12.083	20.320	6963	6	14.025	24.624					7110	6	18.530	15.757
6816	16	6.811	15.687	6890	14	12.686	20.653	6964	14	14.364	24.420					7111	8	24.635	15.275
6817	12	8.082	15.060	6891	7	13.149	20.188	6965	13	16.537	24.764					7112	9	0.542	16.433
6818	19	14.765	15.150	6892	8	15.661	20.377	6966	11	17.373	24.106					7113	11	2.906	16.544
6819	7	15.361	15.192	6893	9	15.771	20.309	6967	10	23.557	24.485					7114	6	5.178	16.341
6820	23	16.462	15.962	6894	11	16.627	20.101	6968	5	5.816	25.291					7115*	81	7.440	16.845
6821	23	18.560	15.231	6895*	45	18.005	20.373	6969	10	6.362	25.279					7116	12	8.989	16.337
6822	7	21.726	15.711	6896	8	18.535	20.660	6970	20	9.285	25.279					7117*	18	16.793	16.594
6823	7	23.697	15.467	6897	14	23.369	20.353	6971	11	14.903	25.256					7118	6	0.805	17.888
6824	13	24.368	15.688	6898	18	0.268	21.133	6972	18	15.683	25.505					7119*	35	12.464	17.849
6825	14	25.502	15.197	6899</															

7123	9	3.295	18.236	<div>R. A. 2^h 20^m</div> <div>Plate 1487; 1900 Jan. 17.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-00025 -00146 -1331</div> <div>D E F</div> <div>+00092 -00033 -1809</div> <div>Mag. = 16.2 - 1.25√d</div>	7257	10	12.205	5.129	7331	8	3.426	12.142	7405	15	20.502	16.500
7124	6	8.189	18.114		7258	12	17.888	5.916	7332	10	3.838	12.742	7406	17	21.444	16.980
7125	16	10.506	18.641		7259	6	18.763	5.714	7333	10	7.716	12.680	7407	13	21.470	16.975
7126	7	14.615	18.137		7260	9	23.099	5.100	7334	10	12.224	12.669	7408	8	22.605	16.458
7127	8	18.172	18.084		7261	20	24.495	5.497	7335	30	13.389	12.341	7409	17	1.406	17.698
7128	14	1.062	19.915		7262	7	25.745	5.055	7336	10	15.571	12.080	7410	15	5.814	17.890
7129	25	5.435	19.751		7263	13	0.405	6.456	7337	10	20.275	12.850	7411*	21	5.955	17.505
7130	8	5.445	19.985		7264	21	2.003	6.324	7338	7	20.656	12.444	7412*	29	6.320	17.425
7131	6	5.526	19.169		7265	12	3.094	6.639	7339	8	20.737	12.111	7413	13	14.256	17.523
7132	8	7.807	19.178		7266	8	3.661	6.370	7340	20	23.747	12.455	7414	10	14.687	17.074
7133	9	8.402	19.337	7267	8	8.044	6.616	7341	12	0.890	13.596	7415	7	15.530	17.297	
7134	25	9.560	19.555	7268	10	8.745	6.183	7342	9	1.636	13.697	7416	11	16.365	17.744	
7135	10	12.152	19.891	7269	8	10.454	6.200	7343	12	1.707	13.497	7417	8	16.557	17.204	
7136	6	12.498	19.704	7270	8	10.970	6.182	7344	6	2.280	13.881	7418	14	17.424	17.310	
7137	5	13.429	19.570	7271	14	11.059	6.104	7345	18	3.198	13.336	7419*	29	19.450	17.669	
7138	26	17.215	19.944	7272	14	13.144	6.563	7346	6	4.836	13.462	7420	12	5.207	18.624	
7139	10	19.156	19.496	7273	10	15.051	6.716	7347	8	7.171	13.284	7421	6	6.080	18.428	
7140	7	1.214	20.655	7274	9	15.975	6.712	7348	14	8.380	13.376	7422	6	8.245	18.704	
7141	6	7.675	20.391	7275	25	17.504	6.487	7349*	40	10.944	13.231	7423	12	9.479	18.412	
7142	5	8.352	20.069	7276	20	18.484	6.616	7350	20	11.841	13.765	7424	14	10.115	18.083	
7143	14	11.374	20.436	7277	10	18.616	6.582	7351	6	12.692	13.444	7425	8	12.326	18.208	
7144	15	11.605	20.525	7278	9	22.490	6.420	7352	20	13.451	13.390	7426	12	18.619	18.677	
7145	6	12.180	20.037	7279	10	22.500	6.036	7353	9	14.794	13.037	7427	20	24.326	18.798	
7146	7	16.634	20.327	7280	8	23.375	6.093	7354	7	16.906	13.285	7428	18	25.303	18.034	
7147*	35	23.274	20.545	7281	20	24.487	6.021	7355	10	17.376	13.471	7429	6	2.451	19.331	
7148	5	23.915	20.442	7282	17	25.248	6.126	7356	20	20.334	13.937	7430	9	3.545	19.888	
7149	16	24.101	20.491	7283	8	3.858	7.900	7357	8	24.141	13.136	7431	7	4.587	19.955	
7150	12	24.134	20.600	7284	22	8.595	7.529	7358	20	24.383	13.849	7432	10	4.892	19.571	
7151	14	2.901	21.834	7285	20	9.123	7.064	7359	9	24.498	13.817	7433	7	4.946	19.316	
7152	11	7.350	21.306	7286	15	9.539	7.569	7360	8	25.527	13.356	7434	7	10.224	19.158	
7153	20	7.871	21.535	7287	8	13.922	7.603	7361	9	3.509	14.083	7435	8	10.793	19.458	
7154	6	8.538	21.166	7288	10	17.823	7.679	7362*	29	6.033	14.099	7436	15	12.139	19.680	
7155	6	9.127	21.658	7289	10	18.796	7.176	7363	20	7.324	14.625	7437	6	13.145	19.563	
7156	12	11.301	21.116	7290	18	24.017	7.086	7364	9	11.963	14.225	7438	8	13.516	19.287	
7157	5	20.455	21.660	7291	17	25.294	7.044	7365	15	12.909	14.740	7439	10	16.114	19.960	
7158*	32	25.024	21.354	7292	6	1.196	8.709	7366	6	13.635	14.649	7440*	48	16.120	19.935	
7159	6	6.689	22.455	7293	10	12.240	8.306	7367	10	14.515	14.776	7441	24	18.679	19.514	
7160	9	11.536	22.893	7294	8	16.236	8.685	7368	20	19.032	14.327	7442	20	19.409	19.400	
7161	5	19.138	22.287	7295	14	19.196	8.296	7369	14	19.936	14.242	7443*	39	1.700	20.459	
7162*	39	25.028	22.713	7296	20	19.534	8.198	7370	8	19.999	14.540	7444	10	2.341	20.358	
7163*	25	25.056	22.423	7297	9	21.176	8.787	7371	20	21.590	14.773	7445	24	2.525	20.399	
7164	8	1.206	23.414	7298	13	24.697	8.359	7372	6	22.486	14.588	7446	21	2.559	20.508	
7165	11	1.382	23.900	7299	12	25.714	8.046	7373	9	24.356	14.663	7447	7	2.800	20.395	
7166	5	2.895	23.180	7300	9	25.853	8.389	7374	12	3.025	15.178	7448	5	8.482	20.185	
7167*	18	6.483	23.025	7301	10	0.046	9.505	7375	16	10.927	15.385	7449	10	10.208	20.797	
7168	10	8.975	23.467	7302*	30	5.297	9.721	7376	9	12.132	15.458	7450	9	11.989	20.063	
7169	22	9.192	23.716	7303	13	7.041	9.252	7377	10	13.522	15.776	7451	14	12.674	20.594	
7170	9	9.645	23.319	7304	8	7.392	9.516	7378	8	14.023	15.670	7452	12	13.711	20.513	
7171	9	12.854	23.035	7305	10	7.833	9.773	7379	8	14.193	15.898	7453	9	13.779	20.252	
7172	18	15.915	23.319	7306*	52	13.238	9.321	7380	6	15.531	15.184	7454	8	14.151	20.663	
7173	15	20.663	23.076	7307	11	23.239	9.051	7381	7	16.211	15.765	7455	9	14.477	20.444	
7174	13	20.692	23.105	7308	11	0.975	10.795	7382*	26	17.475	15.240	7456	9	17.224	20.136	
7175	5	23.725	23.748	7309	9	3.616	10.241	7383	6	17.819	15.943	7457	8	17.486	20.329	
7176	5	1.513	24.252	7310	18	4.943	10.900	7384	9	21.650	15.327	7458	6	18.783	20.332	
7177	7	1.886	24.001	7311	14	6.750	10.899	7385	7	23.641	15.735	7459	14	25.115	20.442	
7178	24	3.667	24.068	7312	8	7.060	10.271	7386	12	24.674	15.031	7460*	31	3.454	21.254	
7179	5	5.915	24.133	7313	8	15.861	10.274	7387	20	24.716	15.850	7461	6	3.627	21.949	
7180	12	10.696	24.020	7314	22	16.035	10.223	7388	6	0.821	16.847	7462	8	4.654	21.196	
7181	6	12.322	24.087	7315	10	17.175	10.790	7389	6	1.504	16.943	7463	8	6.066	21.032	
7182	6	14.103	24.406	7316	22	21.459	10.176	7390	10	3.064	16.244	7464	17	8.791	21.727	
7183	6	14.313	24.873	7317	8	21.492	10.171	7391	7	5.333	16.698	7465	6	10.348	21.256	
7184	8	0.654	25.922	7318	6	22.289	10.296	7392	7	5.356	16.163	7466*	30	10.983	21.819	
7185	7	2.166	25.397	7319	20	25.876	10.364	7393	8	8.167	16.691	7467	14	15.476	21.815	
7186																

7479	9	14°083	22°153	7623*	58	22°125	3°275	7697	10	11°542	13°715	7771	17	12°269	23°186	7836	11	17°298	4°804
7480	22	16°930	22°504	7624*	68	22°253	3°269	7698	17	14°211	13°120	7772	21	20°733	23°806	7837	10	22°216	4°590
7481	8	17°001	22°712	7625	27	5°813	4°862	7699	21	19°313	13°311	7773	14	6°905	24°756	7838	5	22°904	4°094
7482	10	20°845	22°560	7626	8	8°829	4°069	7700	22	20°077	13°923	7774	7	7°529	24°988	7839	7	0°895	5°674
7483	8	21°670	22°428	7627	11	16°594	4°741	7701	26	21°468	13°986	7775	22	8°667	24°520	7840	7	4°485	5°302
7484	8	22°806	22°222	7628	7	20°045	4°026	7702	21	0°389	14°608	7776*	32	18°004	24°713	7841	6	6°679	5°936
7485	28	23°166	22°814	7629	16	3°171	5°816	7703	9	3°157	14°457	7777	21	19°587	24°598	7842	6	7°951	5°463
7486	21	24°321	22°688	7630	18	3°171	5°292	7704	14	3°487	14°821	7778	21	25°945	24°355	7843	5	11°479	5°085
7487	12	2°175	23°661	7631	13	3°932	5°911	7705	11	8°896	14°248	7779	22	3°751	25°800	7844	13	20°895	5°892
7488	12	3°266	23°805	7632	12	8°693	5°613	7706	16	9°713	14°151	7780	16	4°481	25°015	7845	12	22°059	5°894
7489	8	6°736	23°449	7633	21	11°461	5°814	7707	10	9°735	14°586	7781	24	5°413	25°373	7846	6	23°873	5°350
7490	12	10°784	23°823	7634	9	12°859	5°127	7708	7	12°543	14°304	7782	10	9°491	25°028	7847	8	4°089	6°556
7491	10	15°731	23°490	7635	27	13°646	5°456	7709	23	19°468	14°521	7783	19	10°172	25°859	7848	6	12°239	6°615
7492	22	18°120	23°119	7636	9	15°392	5°209	7710	7	21°263	14°874	7784	22	10°568	25°713	7849	7	18°704	6°866
7493	20	19°004	23°355	7637	8	16°536	5°256	7711	7	0°464	15°161	7785	7	21°636	25°163	7850	5	19°876	6°905
7494	10	19°725	23°036	7638	15	2°713	6°887	7712	16	3°534	15°642	7786	29	23°885	25°207	7851	7	21°543	6°110
7495*	20	6°694	24°133	7639	13	3°991	6°828	7713	15	5°775	15°551					7852	14	23°336	6°857
7496	24	6°711	24°022	7640	28	4°887	6°799	7714	14	7°636	15°076					7853*	43	23°583	6°557
7497*	30	11°007	24°566	7641	11	10°192	6°987	7715	14	15°580	15°834					7854	12	3°576	7°219
7498	8	16°174	24°513	7642	10	12°598	6°402	7716*	18	15°944	15°648					7855	6	4°280	7°046
7499	8	21°436	24°524	7643*	41	15°803	6°135	7717	13	20°224	15°004					7856	9	5°507	7°047
7500*	39	1°804	25°566	7644	10	4°424	7°826	7718	18	0°281	16°817					7857	32	6°342	7°036
7501	10	2°189	25°105	7645	19	10°164	7°530	7719	12	0°302	16°812					7858	5	6°481	7°865
7502	23	3°829	25°375	7646	10	10°712	7°065	7720	7	1°426	16°277					7859	18	11°699	7°894
7503	10	6°352	25°736	7647	23	11°077	7°104	7721	24	4°936	16°734					7860	8	14°534	7°826
7504	16	11°338	25°754	7648*	29	15°570	7°600	7722	32	5°553	16°485					7861	7	16°772	7°280
7505	28	18°091	25°387	7649	12	16°176	7°767	7723	10	7°344	16°789					7862	16	21°415	7°335
7506	12	23°824	25°681	7650	25	20°871	7°658	7724	14	13°826	16°850					7863	9	23°358	7°968
7507	12	25°536	25°239	7651	8	1°964	8°864	7725	13	17°268	16°527					7864	6	0°444	8°610
				7652	13	3°411	8°152	7726	10	17°273	16°595					7865	16	5°294	8°382
				7653	17	6°977	8°346	7727	7	17°560	16°573					7866	6	6°268	8°986
				7654	15	8°979	8°470	7728	20	18°328	16°557					7867	7	9°865	8°661
				7655	18	11°317	8°262	7729	7	20°479	16°191					7868	6	10°277	8°145
				7656	8	12°562	8°462	7730	11	24°076	16°534					7869	7	12°959	8°814
				7657	13	13°186	8°887	7731	16	24°301	16°879					7870	31	18°674	8°431
				7658	14	19°398	8°029	7732	14	4°152	17°816					7871	6	18°895	8°784
				7659	7	7°713	9°614	7733	7	15°544	17°708					7872	12	20°809	8°588
				7660	19	14°984	9°462	7734	12	16°807	17°446					7873	9	23°175	8°312
				7661	12	16°098	9°968	7735	27	20°962	17°508					7874	10	23°885	8°904
				7662	27	0°197	10°012	7736	7	22°636	17°589					7875	5	0°547	9°425
				7663	22	4°621	10°139	7737	14	3°184	18°594					7876	5	2°431	9°558
				7664*	68	4°624	10°183	7738	6	4°118	18°472					7877	7	6°479	9°634
				7665*	33	4°844	10°733	7739	7	7°222	18°856					7878	12	6°737	9°774
				7666	18	10°332	10°748	7740	19	9°227	18°904					7879	5	6°757	9°455
				7667	14	12°013	10°524	7741	13	10°126	18°551					7880	5	6°858	9°027
				7668	10	12°490	10°281	7742	14	17°995	18°457					7881	6	8°820	9°320
				7669	9	13°104	10°967	7743	15	22°378	18°146					7882	11	11°054	9°565
				7670	33	13°496	10°710	7744	7	11°539	19°473					7883	10	12°075	9°605
				7671	6	13°786	10°607	7745	6	12°746	19°795					7884	5	12°883	9°316
				7672	10	21°146	10°755	7746	12	24°992	19°841					7885	7	13°075	9°385
				7673	27	4°942	11°754	7747	9	3°997	20°227					7886	11	22°194	9°316
				7674	14	5°503	11°666	7748	7	8°520	20°497					7887	6	23°354	9°699
				7675	13	5°809	11°742	7749	15	14°103	20°011					7888	6	12°531	10°914
				7676	13	6°965	11°046	7750	5	4°499	21°670					7889	6	18°026	10°646
				7677	12	17°412	11°277	7751	26	10°692	21°234					7890	28	19°454	10°887
				7678	9	17°416	11°108	7752	7	11°595	21°265					7891	8	21°090	10°209
				7679	12	18°434	11°721	7753	30	2°079	22°624					7892	6	22°003	10°595
				7680	9	25°360	11°394	7754	23	3°231	22°482					7893	8	2°950	11°728
				7681	20	2°517	12°260	7755	22	7°018	22°771					7894	25	7°246	11°579
				7682	8	6°426	12°939	7756	20	7°404	22°390					7895	8	11°752	11°171
				7683	10	7°339	12°823	7757	9	8°119	22°689					7896	7	13°460	11°604
				7684	11	8°041	12°929	7758	22	8°884	22°846					7897	14	14°464	11°374
				7685	9	8°354	12°532	7759*	29	9°724	22°338					7898	16	14°465	11°575
				7686	14	14°071	12°706	7760*	36	11°458	22°807					7899	6	15°194	11°923
				7687	14	14°546	12°805	7761	5	13°753	22°833					7900	5	16°164	11°671
				7688	15	16°872	12°407	7762	9	18°252	22°368					7901	18	21°744	11°405
				7689	12	18°748	12°948	7763	26	19°469	22°629					7902	8	2°498	12°291
				7690	9	21°301	12°476	7764	27	24°647	22°004					7903	10	5°215	12°703
				7691	21	3°172	13°647	7765*	24	6°251	23°995					7904	18	6°771	12°819
				7692	7	3°291	13°613	7766	11	8°300	23°377					7905	6	7°242	12°294
				7693	9	4°311	13°135	7767	13	9°168	23°476					7906	10	7°584	12°415
				7694	8	6°947	13°537	7768	6	9°582	23°284					7907	12	18°152	12°330
				7695	15	7°596	13°791	7769	22	11°708	23°543					7908	9	5°912	13°746
				7696*	35	9°958	13°036	7770	11	11°816	23°234					7909	20	10°539	13°184

R. A. 2^h 36^m

Plate 1261 ; 1898 Dec. 28.

Provisional Constants.

A	B	C
+00005	+00902	-3817

D	E	F
-0092		

7910	5	13°445	13°132	7984*	32	4°165	22°748	8119	10	18°794	2°744	8193	10	14°347	10°168	8267	11	2°739	17°440
7911	6	13°887	13°152	7985	6	14°199	22°555	8120	11	20°633	2°065	8194	12	14°954	10°467	8268	21	11°669	17°640
7912	11	14°140	13°477	7986	8	14°376	22°519	8121	12	21°783	2°068	8195	22	14°978	10°400	8269	21	13°076	17°012
7913	10	21°649	13°889	7987	7	15°930	22°292	8122*	37	23°759	2°475	8196*	31	19°268	10°359	8270	12	13°518	17°409
7914	7	24°314	13°677	7988*	22	21°224	22°654	8123	20	6°935	3°079	8197	12	21°529	10°313	8271	9	14°732	17°072
7915	10	9°405	14°978	7989	5	23°325	22°549	8124	10	8°570	3°589	8198	23	21°557	10°014	8272	10	20°964	17°400
7916	6	11°645	14°526	7990	11	23°832	22°235	8125	12	16°111	3°475	8199	12	22°830	10°935	8273	11	21°083	17°051
7917	22	14°451	14°298	7991	6	8°658	23°545	8126	9	20°941	3°062	8200	13	22°975	10°347	8274	12	22°907	17°531
7918	10	19°125	14°226	7992	8	10°203	23°268	8127	10	20°994	3°075	8201	21	23°738	10°080	8275	24	0°063	18°408
7919	13	20°014	14°834	7993	9	10°221	23°494	8128	10	22°477	3°928	8202	10	24°363	10°815	8276	10	1°728	18°044
7920	29	20°066	14°804	7994	6	12°135	23°575	8129	12	25°409	3°748	8203	10	25°073	10°827	8277	9	4°467	18°527
7921	11	21°351	14°915	7995	7	12°408	23°897	8130*	37	25°548	3°596	8204	23	0°034	11°607	8278	10	5°370	18°322
7922	6	4°175	15°922	7996	19	14°564	23°860	8131	13	0°408	4°786	8205	10	6°713	11°640	8279	9	5°431	18°362
7923*	50	11°083	15°204	7997	8	16°646	23°545	8132	14	4°097	4°015	8206	10	7°514	11°386	8280	11	5°613	18°410
7924	6	13°265	15°513	7998	9	16°845	23°974	8133	9	6°183	4°682	8207	10	7°794	11°273	8281	10	7°220	18°509
7925	28	13°488	15°215	7999	17	3°875	24°677	8134	14	6°653	4°067	8208	11	7°818	11°613	8282	9	12°284	18°865
7926	9	17°470	15°342	8000	6	11°292	24°005	8135*	31	7°218	4°347	8209	10	9°148	11°368	8283	10	12°549	18°611
7927	7	17°754	15°736	8001	6	12°656	24°853	8136	23	11°323	4°856	8210*	38	9°372	11°529	8284	11	12°991	18°617
7928	9	17°866	15°775	8002	6	12°687	24°834	8137	23	16°585	4°961	8211*	54	13°892	11°974	8285	10	14°182	18°211
7929*	78	18°320	15°483	8003	5	14°249	24°794	8138	10	17°187	4°492	8212	10	23°563	11°907	8286	10	18°540	18°114
7930	5	19°102	15°308	8004	8	14°465	24°045	8139	9	18°888	4°864	8213	13	23°741	11°703	8287	8	21°601	18°794
7931	10	19°259	15°144	8005	9	20°905	24°108	8140	11	19°174	4°670	8214	9	25°317	11°296	8288	12	21°664	18°266
7932	12	24°486	15°162	8006	7	21°056	24°750	8141	17	20°156	4°676	8215	21	25°384	11°540	8289*	38	21°738	18°971
7933*	45	24°726	15°696	8007	7	23°695	24°066	8142	10	24°408	4°047	8216	12	7°344	12°188	8290	12	4°923	19°167
7934	8	1°804	16°899	8008*	26	1°835	25°580	8143	10	2°082	5°522	8217	11	7°867	12°212	8291*	26	6°121	19°722
7935	8	8°395	16°640	8009*	29	7°995	25°287	8144	10	5°102	5°254	8218	10	9°481	12°700	8292	14	6°603	19°374
7936	8	8°505	16°829	8010	7	8°052	25°398	8145	9	7°451	5°925	8219*	21	10°294	12°833	8293	10	8°704	19°953
7937	17	9°119	16°825	8011	12	13°842	25°924	8146	9	10°003	5°716	8220	10	18°754	12°941	8294	10	9°118	19°669
7938	7	13°848	16°806	8012	6	14°022	25°142	8147	20	13°577	5°869	8221	18	20°652	12°270	8295	10	12°926	19°367
7939	18	14°817	16°904	8013*	49	14°582	25°862	8148	18	14°554	5°490	8222	10	22°147	12°060	8296	14	13°122	19°042
7940	10	22°054	16°919	8014	6	24°073	25°529	8149	10	17°836	5°854	8223	12	22°258	12°529	8297	12	14°063	19°488
7941	5	24°909	16°606	8015	17	24°395	25°709	8150	14	19°036	5°768	8224	10	23°743	12°348	8298	15	16°764	19°849
7942	6	0°386	17°994	8016	6	25°329	25°290	8151	12	19°797	5°451	8225	9	24°293	12°083	8299	10	17°874	19°183
7943	12	2°036	17°241					8152	10	23°078	5°017	8226	10	2°638	13°845	8300	13	22°479	19°597
7944	5	3°508	17°346					8153	12	0°272	6°094	8227	8	3°913	13°588	8301	14	4°139	20°296
7945	10	5°551	17°085					8154*	42	1°805	6°733	8228	9	7°905	13°109	8302	12	5°148	20°555
7946	8	6°429	17°495					8155	10	8°810	6°343	8229	22	11°861	13°227	8303	10	5°253	20°258
7947	14	12°452	17°451					8156	13	9°544	6°522	8230	10	15°342	13°122	8304	12	5°661	20°429
7948	5	14°142	17°645					8157	10	10°873	6°541	8231	12	15°405	13°542	8305	10	12°347	20°006
7949	14	14°324	17°468					8158	12	16°437	6°507	8232	13	16°292	13°877	8306	9	14°153	20°890
7950	7	15°144	17°275					8159	12	18°043	6°109	8233	10	16°467	13°111	8307	12	16°188	20°486
7951	7	15°811	17°698					8160	11	20°723	6°340	8234	18	16°542	13°010	8308	11	19°226	20°252
7952	5	23°346	17°865					8161	17	20°888	6°378	8235	20	18°898	13°368	8309	10	20°670	20°504
7953	8	24°365	17°274					8162	23	1°560	7°037	8236	13	21°560	13°882	8310*	18	21°285	20°424
7954	12	0°146	18°556					8163	11	5°174	7°393	8237	12	22°041	13°473	8311	10	22°573	20°316
7955	6	4°122	18°677					8164	10	15°029	7°341	8238	9	25°802	13°789	8312	10	23°036	20°144
7956*	41	6°144	18°315					8165	11	15°330	7°937	8239	10	1°514	14°266	8313	17	24°903	20°689
7957	17	9°465	18°615					8166	10	16°285	7°381	8240	8	8°335	14°997	8314	9	3°444	21°654
7958	8	11°050	18°881					8167	17	16°738	7°976	8241	9	10°683	14°223	8315	12	3°453	21°232
7959*	41	13°432	18°115					8168	10	18°082	7°103	8242	9	15°496	14°508	8316	20	9°450	21°888
7960	6	14°061	18°556					8169	9	22°845	7°978	8243	9	18°619	14°628	8317*	30	9°800	21°906
7961	5	16°030	18°437					8170	12	1°425	8°494	8244	10	18°755	14°915	8318	17	10°620	21°831
7962	5	20°708	18°180					8171	13	1°597	8°150	8245	12	23°706	14°855	8319	10	14°047	21°235
7963	21	21°676	18°205					8172*	43	9°900	8°901	8246	17	2°832	15°324	8320	12	17°022	21°886
7964	10	6°762	19°904					8173	9	12°758	8°405	8247*	44	3°075	15°857	8321	10	18°947	21°707
7965*	26	6°877	19°634					8174	24	14°336	8°623	8248	10	4°327	15°386	8322	10	22°615	21°843
7966	8	8°541	19°138					8175	13	0°454	9°513	8249	10	7°493	15°999	8323	23	25°234	21°308
7967	8	13°244	19°317					8176	10	1°622	9°878	8250	12	11°295	15°623	8324	9	1°774	22°727
7968	19	15°198	19°501					8177	13	2°141	9°075	8251	10	14°076	15°149	8325	15	2°274	22°408
7969	8	21°245	19°404					8178	11	4°418	9°173	8252	12	14°084	15°687	8326	10	16°033	22°822
7970	11	2°802	20°185					8179	20	4°726	9°759	8253	16	16°876	15°250	8327	14	24°702	22°793
7971	8	9°298	20°710					8180	10	6°129	9°737	8254	19	23°396	15°964	8328	13	4°867	23°866
7972	10	14°402	20°107					8181	22	7°255	9°678	8255	10	23°674	15°376	8329	10	6°583	23°648
7973	14	16°065	20°921					8182	9	14°072	9°584	8256	9	0°506	16°319	8330	16	11°255	23°606
7974	10	25°726	20°150					8183	10	14°671	9°786	8257	18	8°964	16°266	8331	12	12°468	23°353
7975	7	5°134	21°731					8184	10	14°969	9°983	8258*	12	9°859	16°064	8332	9	15°035	23°877
7976	15	8°645	21°639					8185	14	17°342	9°277	8259	17	10°842	16°921	8333	9	15°259	23°998
7977	11	11°585	21°931					8186	10	21°623	9°034	8260							

8341	16	16.333	24.433	8434	12	14.926	3.708	8508	8	21.603	10.160	8582	9	6.948	17.511	8656	12	5.477	24.935
8342	13	16.522	24.811	8435	10	17.635	3.629	8509	11	22.615	10.628	8583	8	7.953	17.317	8657	11	8.109	24.494
8343	9	17.323	24.265	8436	12	21.270	3.353	8510	8	22.638	10.321	8584	10	9.292	17.374	8658	10	10.249	24.439
8344	10	17.991	24.414	8437	12	21.424	3.078	8511*	22	22.790	10.650	8585	8	9.813	17.982	8659	9	14.877	24.328
8345	12	19.795	24.492	8438	14	22.598	3.649	8512*	24	23.091	10.177	8586	14	11.812	17.747	8660	14	15.744	24.830
8346	24	24.268	24.190	8439	23	24.734	3.959	8513	12	1.029	11.096	8587	10	15.604	17.497	8661	9	16.670	24.439
8347	14	25.217	24.412	8440	14	2.518	4.182	8514	12	1.951	11.850	8588	12	23.003	17.915	8662	13	22.474	24.307
8348	10	2.561	25.700	8441	12	4.219	4.617	8515	14	3.592	11.663	8589	8	5.514	18.233	8663	16	25.165	24.484
8349	22	2.885	25.873	8442	12	4.409	4.588	8516	12	8.195	11.899	8590	20	6.745	18.612	8664	13	1.097	25.258
8350	14	3.812	25.439	8443*	21	5.931	4.967	8517	10	15.084	11.562	8591	12	7.400	18.295	8665	14	4.906	25.221
8351	10	6.574	25.045	8444*	17	7.268	4.754	8518	8	16.438	11.624	8592	11	10.766	18.354	8666	12	6.549	25.004
8352	21	7.385	25.473	8445	8	9.658	4.283	8519	12	16.891	11.741	8593	11	11.615	18.377	8667*	12	6.730	25.543
8353	11	14.181	25.545	8446	9	16.285	4.259	8520	10	16.900	11.585	8594*	20	12.787	18.589	8668	11	6.813	25.087
8354	22	14.958	25.845	8447	12	17.407	4.652	8521	11	16.967	11.360	8595	12	15.129	18.844	8669	13	6.854	25.370
8355	12	15.208	25.342	8448	8	17.500	4.165	8522	12	17.774	11.148	8596	10	17.084	18.285	8670	10	14.310	25.809
8356	8	17.718	25.326	8449	10	20.978	4.397	8523*	32	19.108	11.074	8597	13	24.346	18.878	8671	14	16.630	25.590
8357	12	17.815	25.419	8450	9	21.049	4.461	8524	10	22.447	11.067	8598*	31	0.043	19.144	8672*	79	23.659	25.697
8358	13	18.357	25.869	8451	12	22.122	4.129	8525	10	23.633	11.706	8599	12	0.794	19.763				
				8452	12	23.372	4.833	8526	12	0.355	12.225	8600	8	4.624	19.422				
				8453	12	1.200	5.174	8527	11	0.476	12.695	8601	12	4.729	19.946				
				8454	8	4.306	5.206	8528	12	1.777	12.053	8602	10	9.833	19.611				
				8455	9	7.290	5.164	8529	10	2.506	12.221	8603	7	10.244	19.313				
				8456	10	10.596	5.083	8530	9	5.144	12.385	8604	12	10.964	19.504				
				8457	10	11.867	5.626	8531	10	8.385	12.674	8605*	20	13.117	19.978				
				8458	12	12.187	5.231	8532	14	9.373	12.133	8606	10	15.154	19.621				
				8459	12	12.395	5.340	8533	10	15.043	12.302	8607	12	19.206	19.556				
				8460	10	4.563	6.592	8534	8	15.871	12.748	8608	12	0.892	20.475				
				8461	10	6.195	6.507	8535	12	0.274	13.639	8609	9	1.358	20.300				
				8462	9	6.839	6.622	8536	12	4.668	13.998	8610	12	3.230	20.818				
				8463	8	13.356	6.806	8537	8	6.587	13.548	8611	10	12.165	20.493				
				8464	9	18.969	6.396	8538	11	10.738	13.485	8612	9	13.856	20.300				
				8465*	19	20.694	6.780	8539	11	12.166	13.756	8613	9	14.861	20.497				
				8466	11	21.601	6.542	8540	14	12.425	13.177	8614	10	18.574	20.859				
				8467	9	23.321	6.548	8541	15	14.086	13.824	8615	9	20.804	20.048				
				8468	8	5.329	7.928	8542	9	14.270	13.536	8616	20	23.816	20.637				
				8469	12	5.906	7.650	8543*	27	16.588	13.701	8617	13	25.344	20.010				
				8470	8	9.110	7.931	8544	7	19.835	13.581	8618	14	3.570	21.432				
				8471	9	11.124	7.246	8545	11	22.165	13.575	8619	12	5.616	21.767				
				8472	8	14.744	7.145	8546	10	23.049	13.955	8620*	30	8.003	21.204				
				8473	26	15.027	7.444	8547	8	1.958	14.998	8621	8	9.460	21.529				
				8474	11	15.308	7.492	8548	12	6.751	14.907	8622	10	12.092	21.315				
				8475	12	17.609	7.369	8549	8	7.828	14.685	8623	14	15.560	21.376				
				8476	10	20.775	7.793	8550	10	8.357	14.620	8624	8	22.255	21.033				
				8477	12	23.253	7.460	8551	11	13.326	14.560	8625	10	22.440	21.327				
				8478	9	1.007	8.135	8552	8	13.737	14.202	8626	11	22.897	21.821				
				8479	8	9.644	8.486	8553	10	16.619	14.640	8627*	20	25.329	21.487				
				8480	10	12.277	8.548	8554	12	18.107	14.864	8628	12	3.059	22.927				
				8481	8	12.928	8.248	8555	10	18.116	14.027	8629	9	6.318	22.749				
				8482	12	12.988	8.688	8556	9	19.442	14.904	8630*	20	6.530	22.154				
				8483	12	15.144	8.239	8557	10	19.750	14.691	8631	12	8.901	22.325				
				8484	14	19.312	8.884	8558	10	19.755	14.667	8632	10	9.910	22.138				
				8485	11	19.673	8.277	8559	15	24.691	14.261	8633	9	9.950	22.605				
				8486	12	24.888	8.555	8560	12	25.731	14.168	8634	10	11.238	22.176				
				8487	11	4.289	9.892	8561	10	1.932	15.521	8635	11	11.991	22.582				
				8488	8	4.798	9.628	8562	8	5.683	15.294	8636	9	12.475	22.084				
				8489	12	9.514	9.924	8563	9	6.129	15.656	8637	12	14.042	22.440				
				8490	12	10.875	9.076	8564	9	6.844	15.421	8638	8	15.014	22.672				
				8491	12	11.370	9.470	8565	12	8.574	15.330	8639	8	15.276	22.915				
				8492	9	20.274	9.619	8566	21	9.258	15.306	8640	12	15.834	22.181				
				8493	11	22.079	9.140	8567	11	18.307	15.285	8641	14	18.602	22.118				
				8494*	37	22.606	9.666	8568	12	1.664	16.112	8642	10	20.269	22.251				
				8495	12	1.165	10.502	8569	10	4.529	16.707	8643	12	22.008	22.788				
				8496	14	1.928	10.225	8570	8	8.318	16.237	8644*	14	5.999	23.074				
				8497	12	3.276	10.952	8571	11	10.932	16.836	8645	10	6.007	23.212				
				8498	8	5.415	10.667	8572	14	11.539	16.155	8646	10	6.372	23.525				
				8499	10	5.553	10.016	8573	10	11.773	16.441	8647	8	8.740	23.721				
				8500	10	7.062	10.245	8574	9	16.771	16.959	8648	11	9.476	23.838				
				8501	11	8.756	10.750	8575	11	21.097	16.820	8649	12	11.285	23.555				
				8502	10	12.084	10.355	8576	9	21.162	16.253	8650	8	12.318	23.310				
				8503	11	13.917	10.457	8577	10	21.922	16.917	8651	10	12.842	23.201				
				8504	20	15.482	10.661	8578	9	23.637	16.558	8652	12	14.114	23.247				
				8505	9	18.593	10.902	8579	14	0.516	17.137	8653	8	15.549	23.832				
				8506	10	19.710	10.485	8580	12	1.192	17.688	8654	18	2.640	24.327				
				8507	10	20.788	10.911	8581	10	4.319	17.038	8655	12	3.591	24.536				

R. A. 3^h 0^m

Plate 1264; 1898 Dec. 28.

Provisional Constants.

A	B	C
-00049	+00812	-3382

D	E	F
-00826	-00013	+0423

Mag. = 15.7 - 1.25√d

No.	d	x	y
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8736	14	20°346	3'449	8810	10	19'422	10'626	8884	12	21'517	17'299	8958	10	15'069	23'483	9019	14	9'276	2'083
8737	13	20°774	3'198	8811	9	21'207	10'826	8885	12	22'450	17'838	8959	10	15'096	23'220	9020	18	9'450	2'191
8738	11	21°040	3'305	8812	22	24'568	10'927	8886	10	25'896	17'015	8960	12	15'907	23'473	9021	7	11'822	2'073
8739	15	22°620	3'147	8813	8	24'591	10'937	8887	15	1'339	18'093	8961	10	17'007	23'255	9022	13	12'746	2'324
8740	12	23°234	3'815	8814	13	0'674	11'254	8888	11	6'557	18'515	8962	12	18'554	23'757	9023*	57	18'139	2'789
8741	14	0'234	4'323	8815	10	1'864	11'876	8889	8	7'931	18'559	8963	17	19'006	23'830	9024	23	1'294	3'074
8742	23	2'842	4'114	8816	10	2'197	11'309	8890	10	11'523	18'674	8964	15	21'017	23'602	9025	12	1'589	3'971
8743	10	7'570	4'644	8817	11	7'687	11'396	8891*	30	11'798	18'700	8965	12	21'957	23'749	9026	24	1'830	3'954
8744	9	15'360	4'465	8818	11	7'894	11'313	8892	20	16'433	18'641	8966	12	22'374	23'902	9027	15	1'913	3'736
8745	10	16'646	4'118	8819*	72	11'603	11'339	8893	13	16'553	18'073	8967*	22	23'188	23'842	9028*	34	5'627	3'161
8746	9	17'148	4'647	8820*	27	12'986	11'317	8894	8	17'035	18'946	8968	14	3'601	24'628	9029	11	11'685	3'601
8747	10	22'907	4'046	8821	14	16'243	11'735	8895	10	21'078	18'961	8969	10	8'694	24'260	9030	22	12'085	3'251
8748	15	23'145	4'030	8822	20	19'767	11'206	8896	11	21'635	18'531	8970	10	11'540	24'926	9031	7	20'308	3'857
8749	13	23'697	4'862	8823	10	20'330	11'158	8897	14	2'697	19'037	8971	14	11'974	24'197	9032	13	20'839	3'329
8750*	27	24'371	4'276	8824	9	20'792	11'994	8898	7	6'706	19'574	8972	9	13'969	24'722	9033	13	21'614	3'587
8751	14	1'493	5'005	8825	12	21'464	11'617	8899	11	8'189	19'522	8973	10	17'897	24'368	9034*	40	23'628	3'301
8752	8	5'087	5'668	8826	8	23'157	11'875	8900	10	10'941	19'481	8974	10	18'060	24'307	9035	6	25'316	3'266
8753	9	9'496	5'811	8827	9	23'670	11'282	8901	8	13'587	19'236	8975*	40	19'707	24'534	9036	6	2'379	4'778
8754	10	11'052	5'493	8828*	32	24'463	11'696	8902	16	15'799	19'924	8976	12	20'423	24'926	9037*	34	3'057	4'187
8755	8	12'361	5'106	8829	9	10'189	12'100	8903	11	17'218	19'423	8977	20	21'125	24'639	9038	12	5'318	4'383
8756	10	16'968	5'781	8830	13	15'000	12'776	8904	17	17'324	19'459	8978	20	24'741	24'517	9039	11	6'006	4'811
8757	9	17'230	5'816	8831	10	17'025	12'871	8905	14	18'395	19'399	8979*	80	2'116	25'865	9040	14	6'730	4'369
8758	20	21'646	5'519	8832*	37	20'839	12'739	8906	9	18'736	19'274	8980	12	3'568	25'155	9041	13	7'193	4'854
8759	11	22'533	5'876	8833	17	22'414	12'547	8907*	30	19'728	19'920	8981	14	5'639	25'934	9042	15	8'069	4'368
8760	12	1'472	6'720	8834	12	0'429	13'769	8908	8	19'798	19'130	8982	12	5'882	25'109	9043	9	14'324	4'512
8761	8	6'681	6'768	8835	9	6'472	13'079	8909	17	23'567	19'735	8983	12	7'168	25'564	9044	20	14'786	4'818
8762	11	6'814	6'160	8836*	30	13'361	13'451	8910	20	2'193	20'803	8984	9	7'716	25'047	9045	10	17'248	4'894
8763	9	9'457	6'885	8837*	20	23'821	13'385	8911	11	3'711	20'151	8985	12	9'803	25'927	9046	16	17'784	4'208
8764	11	12'149	6'935	8838	12	24'483	13'299	8912	12	4'545	20'634	8986	10	13'490	25'835	9047	14	18'404	4'022
8765	14	13'919	6'183	8839	11	1'318	14'134	8913	9	4'787	20'090	8987	12	14'211	25'567	9048	6	18'583	4'867
8766	8	17'128	6'004	8840	17	2'969	14'411	8914	8	7'216	20'139	8988	13	22'585	25'434	9049	16	19'406	4'133
8767	12	21'782	6'691	8841	10	4'002	14'305	8915	8	10'224	20'451	8989	10	23'288	25'630	9050	13	20'488	4'981
8768	11	1'417	7'636	8842	10	8'200	14'274	8916	9	11'683	20'627	8990	19	25'937	25'688	9051	6	24'644	4'002
8769	9	5'967	7'719	8843	14	10'549	14'349	8917*	20	13'688	20'751					9052	28	0'341	5'456
8770	11	8'411	7'168	8844	9	11'628	14'292	8918	8	14'180	20'330					9053	7	1'230	5'806
8771	10	10'438	7'634	8845*	31	18'096	14'935	8919	10	16'572	20'598					9054	6	6'139	5'736
8772	12	12'307	7'040	8846	9	18'304	14'725	8920	10	16'744	20'156					9055	13	8'006	5'234
8773	10	13'862	7'892	8847	8	20'302	14'190	8921	8	17'843	20'571					9056	14	8'794	5'232
8774	11	20'328	7'403	8848	20	20'311	14'514	8922	14	18'275	20'991					9057	9	14'716	5'521
8775	9	3'070	8'707	8849	12	23'475	14'448	8923	11	19'255	20'357					9058	24	16'135	5'877
8776	11	4'827	8'912	8850	9	24'230	14'484	8924	12	22'158	20'807					9059	9	16'544	5'398
8777	8	5'607	8'821	8851	10	24'561	14'877	8925	10	23'426	20'132					9060	13	18'041	5'107
8778	11	6'473	8'945	8852	12	5'511	15'204	8926	12	24'326	20'832					9061	16	20'092	5'471
8779	8	7'207	8'800	8853	11	6'120	15'061	8927	12	0'637	21'222					9062	5	24'300	5'749
8780	10	9'381	8'488	8854	10	6'743	15'634	8928*	19	3'720	21'627					9063	16	0'489	6'627
8781	9	13'771	8'342	8855	9	7'835	15'441	8929*	22	5'553	21'043					9064	10	7'299	6'479
8782	8	14'912	8'867	8856	10	19'209	15'095	8930	10	7'872	21'851					9065	14	9'386	6'371
8783	10	19'105	8'098	8857	20	20'060	15'145	8931	9	8'695	21'035					9066	6	10'714	6'966
8784	9	22'307	8'839	8858*	31	20'350	15'396	8932	10	8'938	21'186					9067	21	15'225	6'517
8785*	22	22'435	8'255	8859	8	24'165	15'708	8933	9	9'287	21'498					9068	17	18'219	6'339
8786	8	23'168	8'562	8860	10	24'171	15'722	8934	14	10'859	21'133					9069	27	19'458	6'095
8787	12	0'270	9'333	8861	10	1'954	16'728	8935	12	10'979	21'884					9070	16	19'962	6'688
8788*	42	0'809	9'854	8862	9	2'808	16'205	8936	13	12'149	21'987					9071	24	21'934	6'536
8789	16	4'596	9'181	8863	8	8'719	16'961	8937	8	12'361	21'209					9072*	51	24'654	6'871
8790	15	7'726	9'091	8864	17	9'277	16'660	8938	10	12'875	21'534					9073	7	1'715	7'474
8791	10	9'008	9'348	8865	8	9'992	16'690	8939	8	15'476	21'131					9074	5	7'867	7'512
8792	10	9'940	9'468	8866	10	13'142	16'472	8940	16	23'666	21'452					9075	24	9'496	7'873
8793	8	10'327	9'469	8867	9	13'473	16'695	8941	23	24'706	21'456					9076	18	12'117	7'957
8794	9	11'459	9'745	8868	9	14'015	16'877	8942	15	0'415	22'984					9077	8	13'517	7'600
8795	11	12'126	9'285	8869	8	14'536	16'221	8943	9	1'294	22'006					9078	5	13'556	7'296
8796	12	13'228	9'462	8870	14	16'664	16'512	8944	10	3'851	22'655					9079	10	15'850	7'349
8797	8	15'988	9'032	8871	12	21'536	16'721	8945	9	11'665	22'586					9080*	40	15'853	7'387
8798	12	16'717	9'008	8872	11	24'345	16'216	8946*	22	11'912	22'920					9081	16	16'753	7'768
8799	10	20'396	9'981	8873	12	0'238	17'114	8947	8	12'302	22'814					9082	9	18'007	7'659
8800	8	21'897	9'635	8874	9	6'948	17'295	8948	10	13'911	22'990					9083	15	21'418	7'948
8801	10	24'326	9'913	8875	8	8'903	17'153	8949	11	15'836	22'559					9084*	29	1'157	8'186
8802	9	24'760	9'764	8876	10	15'822	17'296	8950	9	23'909	22'562					9085	12	1'893	8'484
8803	12	0'833	10'815	8877	9	16'037	17'728	8951	20	7'151	23'870					9086	8	5'876	8'887
8804	10	0'851	10'508	8878	14	16'362	17'27												

9093	28	16°043	8°164	9167	13	13°692	14°858	9241	19	11°571	20°878	9304	12	5°964	1°007	9378	16	10°406	9°312
9094	12	16°545	8°583	9168	16	14°500	14°814	9242	14	12°483	20°599	9305	23	12°464	1°211	9379	8	11°223	9°362
9095	6	19°254	8°470	9169*	36	17°583	14°765	9243	6	19°610	20°402	9306	12	20°226	1°679	9380	13	14°366	9°142
9096	22	20°041	8°850	9170	17	19°201	14°240	9244	13	21°166	20°054	9307	9	20°451	1°904	9381	15	17°176	9°053
9097	8	24°044	8°383	9171*	33	20°581	14°243	9245	24	23°087	20°644	9308	7	21°391	1°667	9382	9	18°045	9°197
9098	7	0°632	9°569	9172	11	21°141	14°382	9246	14	23°178	20°419	9309	13	22°897	1°444	9383	23	18°427	9°852
9099	9	3°063	9°823	9173	14	21°716	14°786	9247	13	23°493	20°908	9310	7	8°145	2°776	9384	13	22°786	9°096
9100	11	3°499	9°671	9174	12	21°756	14°488	9248	21	2°517	21°372	9311*	30	8°269	2°704	9385	7	24°319	9°848
9101	13	7°385	9°063	9175	21	22°385	14°093	9249	31	3°557	21°361	9312*	44	8°458	2°938	9386	6	24°366	9°905
9102	21	7°666	9°327	9176	25	24°847	14°457	9250	27	13°887	21°953	9313	13	10°423	2°313	9387	5	24°503	9°423
9103	9	8°992	9°530	9177	11	24°872	14°380	9251	5	16°164	21°942	9314	20	10°517	2°221	9388	13	6°587	10°454
9104	21	11°144	9°854	9178	7	2°964	15°623	9252	8	16°893	21°934	9315*	29	0°897	3°403	9389	18	6°918	10°726
9105	8	11°337	9°406	9179	17	2°966	15°634	9253	8	17°647	21°223	9316	20	3°386	3°119	9390	14	11°532	10°057
9106	5	12°566	9°053	9180	16	5°680	15°609	9254	14	24°128	21°257	9317	12	8°285	3°017	9391	7	12°026	10°053
9107	6	12°948	9°487	9181	24	8°031	15°913	9255	8	2°772	22°481	9318	13	10°342	3°546	9392	9	12°470	10°704
9108	14	17°449	9°819	9182	27	8°210	15°319	9256	21	6°034	22°240	9319*	31	14°137	3°432	9393	17	12°634	10°215
9109	15	17°503	9°250	9183	13	13°075	15°930	9257	16	10°423	22°458	9320	7	14°496	3°483	9394	16	15°546	10°312
9110	14	18°757	9°573	9184	21	19°771	15°553	9258*	45	20°341	22°783	9321	8	15°323	3°584	9395	14	16°704	10°809
9111	5	20°686	9°288	9185*	44	21°717	15°338	9259	19	21°013	22°262	9322	7	15°624	3°593	9396	16	20°583	10°536
9112	6	20°700	9°259	9186	6	24°214	15°517	9260	12	24°456	22°314	9323	6	17°688	3°520	9397	14	2°844	11°671
9113	11	21°309	9°463	9187	32	24°289	15°034	9261	28	24°943	22°614	9324	7	18°146	3°979	9398	19	3°871	11°864
9114	9	21°787	9°580	9188	7	24°706	15°913	9262*	32	2°062	23°766	9325	10	21°233	3°981	9399	8	7°796	11°988
9115	33	3°318	10°836	9189	25	25°423	15°784	9263	9	6°731	23°595	9326	9	5°405	4°047	9400	14	9°157	11°054
9116	14	5°073	10°629	9190	12	25°811	15°255	9264	15	9°862	23°683	9327	11	6°630	4°356	9401	12	9°158	11°369
9117	28	10°714	10°827	9191	13	3°146	16°127	9265	26	17°392	23°786	9328	25	6°655	4°469	9402	9	10°187	11°994
9118	9	13°492	10°873	9192	6	4°705	16°912	9266	13	19°495	23°368	9329	8	11°342	4°362	9403	7	14°553	11°778
9119	13	15°103	10°688	9193	15	8°772	16°018	9267	11	21°083	23°953	9330	23	15°804	4°740	9404	14	16°634	11°334
9120	24	20°055	10°741	9194	10	8°955	16°173	9268	6	21°169	23°807	9331	13	16°712	4°777	9405	16	18°195	11°530
9121	14	20°189	10°676	9195	23	9°535	16°702	9269	20	24°563	23°942	9332	7	17°348	4°964	9406	12	18°715	11°481
9122	18	20°979	10°413	9196	5	10°102	16°056	9270	29	0°006	24°586	9333	13	17°506	4°671	9407	7	20°687	11°667
9123	9	21°713	10°936	9197	6	13°833	16°043	9271	28	3°622	24°421	9334	6	18°541	4°464	9408	12	22°134	11°747
9124	16	0°219	11°559	9198	12	14°142	16°129	9272	18	11°122	24°510	9335*	31	22°050	4°471	9409	14	22°621	11°042
9125	6	1°920	11°797	9199	23	14°926	16°529	9273*	58	11°793	24°929	9336	5	25°506	4°956	9410	16	25°845	11°127
9126	13	2°421	11°199	9200	21	15°556	16°461	9274	5	13°299	24°266	9337	13	6°285	5°616	9411	14	1°984	12°604
9127*	41	3°219	11°607	9201	16	16°539	16°584	9275	7	15°382	24°641	9338	24	6°314	5°687	9412	22	7°485	12°083
9128	19	4°831	11°236	9202	23	17°150	16°218	9276	14	18°623	24°798	9339	10	6°814	5°811	9413	15	7°718	12°005
9129	26	9°455	11°094	9203	7	17°459	16°904	9277	15	22°536	24°088	9340	12	8°106	5°592	9414	10	13°155	12°954
9130	7	11°371	11°481	9204	13	20°903	16°749	9278	6	24°480	24°234	9341	7	9°818	5°911	9415	12	13°636	12°189
9131	24	17°831	11°925	9205	11	22°184	16°968	9279	15	1°474	25°364	9342	6	10°173	5°262	9416	11	16°052	12°557
9132	5	18°682	11°980	9206	20	0°331	17°241	9280	13	4°829	25°581	9343*	21	13°152	5°456	9417	8	20°084	12°979
9133	7	19°368	11°051	9207	17	17°726	17°530	9281	27	5°451	25°240	9344	6	13°656	5°953	9418	5	21°085	12°355
9134	14	21°562	11°233	9208	18	23°246	17°087	9282	6	7°628	25°779	9345	21	14°749	5°718	9419	11	24°074	12°056
9135	11	23°505	11°437	9209	14	0°455	18°471	9283	13	9°339	25°650	9346	12	15°378	5°900	9420	26	25°973	12°603
9136	20	25°463	11°593	9210	30	6°433	18°957	9284	12	9°650	25°449	9347	6	16°816	5°201	9421	5	4°993	13°210
9137	28	1°179	12°477	9211	5	7°047	18°528	9285	15	10°529	25°032	9348*	54	18°963	5°187	9422	7	5°315	13°705
9138	5	2°940	12°868	9212	34	7°789	18°365	9286	10	12°561	25°968	9349	16	19°247	5°073	9423	11	12°650	13°845
9139	5	9°103	12°075	9213	6	8°390	18°958	9287	39	15°529	25°056	9350	21	19°374	5°532	9424	9	13°291	13°100
9140	17	13°131	12°556	9214	18	11°567	18°479	9288	5	23°730	25°742	9351	7	22°073	5°537	9425	7	13°497	13°063
9141	10	13°698	12°683	9215	10	12°938	18°241	9289	30	23°863	25°075	9352	5	22°629	5°654	9426	12	15°755	13°588
9142	9	14°892	12°400	9216	6	14°684	18°375	9290*	34	25°036	25°338	9353*	44	1°972	6°959	9427	6	16°555	13°296
9143	7	15°349	12°814	9217	11	21°520	18°208					9354	17	6°238	6°214	9428	13	17°156	13°531
9144	18	20°051	12°499	9218	27	21°543	18°646					9355	18	11°289	6°993	9429*	23	17°347	13°618
9145	12	23°558	12°808	9219	13	22°726	18°223					9356	11	13°135	6°664	9430	9	19°446	13°203
9146	19	24°591	12°515	9220	24	22°944	18°146					9357*	26	14°306	6°940	9431*	23	20°831	13°771
9147*	28	2°596	13°302	9221	11	24°665	18°970					9358*	29	18°903	6°061	9432	11	22°559	13°352
9148	11	3°261	13°208	9222	26	2°403	19°655					9359	5	19°370	6°266	9433	5	24°124	13°451
9149	8	3°796	13°440	9223	11	7°702	19°944					9360	8	23°728	6°535	9434	5	24°152	13°320
9150	23	9°791	13°825	9224	9	9°398	19°447					9361	13	8°424	7°794	9435	9	25°505	13°866
9151	16	11°300	13°167	9225	8	10°472	19°360					9362	11	8°516	7°116	9436	19	2°266	14°542
9152	11	11°416	13°348	9226	9	10°939	19°718					9363	9	11°342	7°245	9437	5	2°291	14°463
9153	7	16°877	13°319	9227	23	13°469	19°947					9364	8	11°615	7°704	9438	13	4°382	14°214
9154	16	18°202	13°083	9228*	28	20°867	19°116					9365	11	13°207	7°690	9439*	27	4°457	14°572
9155*	31	19°572	13°008	9229	24	21°468	19°799					9366	7	14°718	7°107	9440	11	4°667	14°777
9156*	26	19°861	13°406	9230	14	24°109	19°035					9367	11	15°182	7°984	9441	8	5°014	14°709
9157*	19	20°661	13°941	9231*	23	24°407	19°783					9368	7	20°946	7°777	9442	7	6°921	14°971
9158	22	22°126	13°268	9232*	24	25°281	19°177					9369	14	24°378	7°821	9443	21	12°150	14°144
915																			

9452	27	17.14	15.129	9526	13	11.101	21.170	9623*	31	15.382	2.686	9697	13	25.420	8.584	9771	13	20.844	13.258
9453	19	2.862	15.863	9527*	25	12.396	21.624	9624	6	17.175	2.702	9698	14	1.836	9.148	9772	19	23.395	13.301
9454	7	3.241	15.328	9528	7	12.831	21.916	9625	31	20.359	2.415	9699	7	3.384	9.874	9773	7	24.118	13.149
9455	9	5.329	15.334	9529	11	15.286	21.409	9626	26	23.283	2.673	9700	5	3.431	9.930	9774	17	24.193	13.862
9456*	21	6.999	15.789	9530	5	16.250	21.342	9627	6	25.467	2.851	9701	6	3.562	9.446	9775	23	0.246	14.351
9457	7	8.508	15.532	9531	26	17.503	21.419	9628*	75	25.604	2.260	9702	13	6.466	9.939	9776	27	8.361	14.713
9458	13	9.489	15.983	9532	14	18.495	21.127	9629	30	25.663	2.301	9703	17	6.877	9.171	9777	16	10.163	14.076
9459	10	12.358	15.282	9533	9	20.551	21.152	9630	15	5.226	3.568	9704	10	9.952	9.356	9778	6	10.917	14.777
9460	16	15.931	15.392	9534	21	2.470	22.702	9631	28	13.865	3.342	9705	23	10.054	9.629	9779*	24	11.931	14.597
9461	10	18.296	15.226	9535	14	8.119	22.077	9632	7	14.387	3.641	9706	14	10.487	9.923	9780	13	12.904	14.156
9462	7	19.392	15.143	9536	13	12.053	22.718	9633	10	21.129	3.995	9707	13	12.700	9.944	9781	6	21.163	14.831
9463	8	25.165	15.974	9537	7	19.585	22.401	9634	15	24.142	3.665	9708	15	14.044	9.653	9782	12	23.450	14.087
9464	12	6.876	16.937	9538	11	25.625	22.739	9635*	39	24.818	3.780	9709	6	14.191	9.715	9783	20	23.851	14.962
9465	5	7.698	16.466	9539*	26	3.964	23.895	9636	13	25.850	3.144	9710	17	16.303	9.971	9784	12	4.332	15.989
9466	21	7.707	16.887	9540	7	18.993	23.331	9637*	33	1.024	4.539	9711	6	16.411	9.798	9785	19	7.919	15.310
9467*	49	8.353	16.391	9541	8	24.917	23.500	9638	11	4.486	4.963	9712	16	17.836	9.780	9786	5	8.514	15.505
9468	12	9.584	16.404	9542	10	2.112	24.032	9639	23	9.674	4.558	9713	11	18.545	9.449	9787	19	8.751	15.287
9469	6	10.895	16.496	9543*	14	3.624	24.697	9640	14	10.707	4.858	9714	13	19.121	9.086	9788	15	9.824	15.871
9470	7	13.131	16.335	9544	12	5.959	24.103	9641	15	12.436	4.995	9715	15	21.106	9.448	9789	14	10.026	15.933
9471	9	13.582	16.300	9545	11	10.905	24.806	9642	8	13.659	4.730	9716	8	22.202	9.677	9790	20	12.849	15.721
9472	14	22.053	16.271	9546	11	18.386	24.455	9643	20	17.930	4.531	9717	24	5.242	10.251	9791	10	13.074	15.142
9473	7	24.902	16.739	9547	6	20.923	24.035	9644	5	18.581	4.581	9718	18	5.896	10.388	9792	16	14.481	15.157
9474	8	25.594	16.085	9548	13	24.130	24.482	9645	10	19.573	4.496	9719	6	6.837	10.439	9793	11	18.113	15.849
9475	15	25.606	16.932	9549	21	24.206	24.023	9646	9	20.031	4.463	9720	12	9.589	10.754	9794	5	18.355	15.451
9476	13	0.697	17.194	9550	18	1.426	25.175	9647	11	21.828	4.866	9721	7	11.686	10.679	9795	5	18.724	15.026
9477	6	9.919	17.971	9551*	22	2.604	25.419	9648	22	5.813	5.474	9722	13	14.440	10.890	9796	6	18.769	15.703
9478	15	13.592	17.474	9552	16	6.719	25.746	9649	7	8.896	5.190	9723	10	15.576	10.743	9797	5	20.583	15.287
9479	6	14.889	17.387	9553	7	16.606	25.897	9650	9	11.729	5.139	9724	5	15.702	10.454	9798	13	20.834	15.129
9480	14	19.025	17.959	9554	21	23.855	25.230	9651	19	13.481	5.724	9725	19	18.324	10.923	9799	23	23.079	15.585
9481	21	21.267	17.950					9652	13	16.866	5.883	9726	22	19.299	10.372	9800	22	24.491	15.329
9482	24	22.632	17.263					9653	10	16.934	5.722	9727	13	21.076	10.473	9801	17	1.224	16.335
9483	6	24.406	17.804					9654	18	17.183	5.806	9728	5	21.852	10.830	9802	10	4.082	16.755
9484	16	0.412	18.258					9655	14	18.439	5.808	9729	22	24.736	10.911	9803	11	4.763	16.089
9485	6	4.119	18.403					9656	8	19.748	5.823	9730	23	24.893	10.187	9804	20	4.787	16.937
9486	5	4.586	18.814					9657	12	21.595	5.857	9731	13	1.228	11.811	9805	18	5.845	16.124
9487	13	7.945	18.532					9658	23	22.431	5.692	9732	14	1.704	11.096	9806	14	6.435	16.650
9488	11	10.866	18.505					9659	8	23.318	5.225	9733	22	4.930	11.129	9807	11	8.464	16.477
9489	10	14.204	18.812					9660	13	23.651	5.508	9734	23	6.119	11.308	9808	12	9.291	16.803
9490	13	15.702	18.847					9661	18	24.478	5.907	9735	14	7.344	11.539	9809	21	10.153	16.906
9491	12	20.137	18.212					9662	11	2.734	6.571	9736	11	8.953	11.516	9810	8	11.511	16.812
9492	6	21.242	18.768					9663*	33	5.257	6.461	9737	13	9.403	11.655	9811*	30	11.847	16.409
9493	13	21.898	18.606					9664	24	11.812	6.685	9738	14	9.634	11.283	9812	9	15.711	16.323
9494*	34	22.831	18.988					9665	10	12.216	6.509	9739	7	10.605	11.472	9813	12	20.085	16.609
9495	21	23.325	18.371					9666	27	13.656	6.140	9740	7	14.167	11.898	9814	6	20.086	16.052
9496	9	23.783	18.340					9667	14	14.484	6.893	9741	19	14.764	11.230	9815	7	20.716	16.580
9497	6	24.447	18.592					9668	20	18.642	6.994	9742*	26	16.579	11.173	9816	6	21.756	16.155
9498	11	24.978	18.476					9669	17	20.674	6.438	9743	8	16.805	11.274	9817	16	22.423	16.409
9499	6	25.561	18.017					9670	6	21.047	6.328	9744*	43	16.862	11.678	9818	25	22.925	16.806
9500	8	1.588	19.129					9671	7	21.659	6.297	9745	20	16.998	11.393	9819*	24	25.726	16.360
9501*	14	1.896	19.876					9672	18	3.407	7.848	9746	12	18.579	11.300	9820	28	1.819	17.319
9502*	15	2.763	19.256					9673	14	8.668	7.511	9747	9	21.662	11.706	9821	7	3.603	17.829
9503	13	3.829	19.859					9674	13	14.440	7.817	9748	21	22.174	11.771	9822	14	7.788	17.241
9504	8	7.421	19.827					9675	9	18.661	7.987	9749	8	23.881	11.630	9823	16	12.269	17.128
9505	8	8.689	19.778					9676	6	19.078	7.250	9750	13	3.174	12.086	9824	13	13.736	17.661
9506	7	9.194	19.273					9677	8	20.554	7.151	9751*	27	5.083	12.604	9825*	33	15.354	17.475
9507	24	16.732	19.261					9678	8	20.786	7.967	9752	13	6.414	12.298	9826	7	16.385	17.314
9508	10	17.406	19.845					9679	12	21.018	7.973	9753	8	6.772	12.550	9827*	34	17.544	17.262
9509	7	17.783	19.858					9680	23	23.504	7.054	9754	6	11.607	12.316	9828	25	0.465	18.027
9510*	24	21.815	19.942					9681	23	24.412	7.249	9755	9	12.391	12.671	9829	14	1.106	18.672
9511	16	0.588	20.754					9682	11	0.983	8.878	9756	17	12.637	12.382	9830	25	2.530	18.416
9512	13	3.588	20.607					9683	21	4.730	8.731	9757	9	15.125	12.785	9831	11	2.986	18.373
9513	12	11.753	20.919					9684	11	5.206	8.041	9758	11	16.551	12.394	9832	6	3.657	18.619
9514	5	17.507	20.740					9685	9	5.729	8.965	9759	26	24.442	12.823	9833	13	4.188	18.491
9515	11	18.408	20.959					9686	9	6.644	8.019	9760	13	1.679	13.408	9834	10	4.763	18.022
9516	10	25.064	20.538					9687	25	6.989	8.911	9761	6	3.248	13.481	9835	20	9.721	18.479
9517	6	1.637	21.353					9688	12	7.848	8.218	9762	12	4.636	13.874	9836	24	15.540	18.123
9518	5	5.453	21.807					9689	11	9.781	8.798	9763	5	7.928	13.708	9837	7	16.219	18.013
9519	11	6.061	21.986					9690	10	10.472	8.686	9764*	24	8.137	13.006	9838	6	17.668	18.597
9520*	20	6.307	21.806																

9845	23	6.249	19.361	9919	8	5.817	25.870	10045	26	10.532	4.327	10119	19	12.692	10.811	10193	11	12.821	16.426
9846*	32	6.763	19.378	9920	22	8.796	25.857	10046*	37	11.611	4.013	10120	13	12.901	10.941	10194	18	14.429	16.421
9847	24	6.795	19.764	9921	21	12.003	25.522	10047	16	15.192	4.788	10121	7	14.449	10.029	10195	13	18.167	16.639
9848	14	7.941	19.320	9922	13	14.537	25.996	10048	21	0.653	5.739	10122	6	14.475	10.684	10196	26	19.316	16.391
9849	14	10.833	19.937	9923	36	16.656	25.887	10049	7	1.871	5.539	10123	7	14.540	10.540	10197	10	19.334	16.511
9850	14	12.836	19.160	9924*	21	22.685	25.698	10050	16	2.704	5.932	10124	24	15.751	10.219	10198	8	19.943	16.579
9851	11	14.502	19.041	9925	23	24.804	25.758	10051	5	7.429	5.863	10125*	34	16.484	10.648	10199	12	20.112	16.551
9852	15	15.282	19.197					10052	13	8.372	5.646	10126	15	17.391	10.822	10200	24	21.387	16.116
9853	10	15.768	19.380					10053	19	9.127	5.602	10127	14	18.130	10.711	10201	26	23.129	16.286
9854	16	17.047	19.563					10054	18	11.848	5.742	10128	6	22.430	10.926	10202	21	7.178	17.206
9855	22	18.822	19.493					10055*	51	16.502	5.211	10129	24	24.390	10.241	10203	14	7.256	17.213
9856	11	20.378	19.722					10056	20	18.244	5.522	10130	18	0.464	11.820	10204	14	11.639	17.389
9857	13	23.229	19.699					10057	14	23.826	5.503	10131	7	2.170	11.664	10205	11	12.843	17.126
9858*	30	1.045	20.010					10058	6	6.815	6.461	10132	23	6.333	11.900	10206	26	14.082	17.704
9859	14	4.307	20.554					10059	14	10.114	6.243	10133	9	6.667	11.716	10207	13	17.660	17.156
9860	14	9.056	20.887					10060	9	10.627	6.072	10134	9	8.231	11.676	10208	10	19.832	17.275
9861	26	13.969	20.432					10061	25	11.655	6.874	10135*	24	9.560	11.284	10209	13	23.607	17.081
9862	20	17.080	20.071					10062	28	11.668	6.179	10136	6	12.153	11.671	10210	11	6.794	18.207
9863	13	18.360	20.400					10063	7	12.004	6.056	10137	26	13.169	11.882	10211	33	7.413	18.573
9864	11	18.564	20.197					10064	16	17.885	6.591	10138	10	14.563	11.827	10212	12	7.713	18.370
9865	18	21.098	20.832					10065	8	19.985	6.349	10139	7	14.782	11.716	10213	10	8.715	18.316
9866	5	21.314	20.335					10066	10	20.370	6.685	10140*	36	18.455	11.133	10214	7	9.216	18.958
9867	13	22.568	20.175					10067	13	22.944	6.464	10141	13	23.354	11.507	10215	8	9.703	18.862
9868	12	6.083	21.491					10068	4	24.897	6.606	10142	26	2.742	12.848	10216	7	12.985	18.682
9869	6	6.288	21.574					10069	19	1.743	7.089	10143	15	6.799	12.631	10217	7	16.201	18.893
9870	8	6.897	21.027					10070	21	2.652	7.274	10144	10	6.811	12.235	10218	13	16.338	18.448
9871	7	7.622	21.108					10071	18	4.614	7.062	10145	5	8.578	12.335	10219	7	17.032	18.247
9872	16	11.537	21.251					10072	22	6.585	7.894	10146*	70	20.934	12.770	10220*	19	18.849	18.502
9873	7	13.874	21.992					10073	18	8.362	7.424	10147	9	20.968	12.571	10221	8	21.697	18.491
9874	11	14.721	21.766					10074	23	11.553	7.461	10148	11	23.626	12.230	10222	18	22.676	18.993
9875	12	15.808	21.344					10075	9	14.294	7.574	10149	6	24.690	12.487	10223	12	23.239	18.338
9876	24	18.427	21.271					10076	11	17.714	7.462	10150	16	1.702	13.338	10224	9	1.606	19.740
9877	13	21.282	21.184					10077	14	19.614	7.766	10151	5	2.424	13.179	10225	13	6.755	19.139
9878	28	24.929	21.909					10078	9	20.541	7.631	10152	17	2.508	13.891	10226	24	6.964	19.620
9879	13	4.903	22.743					10079*	32	22.207	7.544	10153	5	8.624	13.195	10227*	25	10.312	19.678
9880	10	6.481	22.677					10080	14	23.200	7.219	10154*	33	8.876	13.496	10228	5	10.847	19.431
9881	11	13.016	22.086					10081	12	23.349	7.652	10155	9	10.493	13.655	10229	12	19.248	19.588
9882	7	15.374	22.387					10082	5	23.735	7.340	10156	6	11.245	13.148	10230*	26	21.218	19.494
9883*	29	16.834	22.509					10083	21	24.877	7.648	10157	13	11.732	13.237	10231	20	23.247	19.995
9884	6	21.905	22.760					10084	12	3.156	8.600	10158	5	19.408	13.521	10232	12	24.154	19.834
9885	9	4.212	23.518					10085	13	3.674	8.599	10159	14	20.194	13.147	10233	9	24.492	19.446
9886	15	8.269	23.469					10086	17	4.569	8.531	10160	18	20.918	13.009	10234	8	0.951	20.221
9887*	45	8.962	23.833					10087	24	8.640	8.633	10161*	34	23.421	13.290	10235	14	8.718	20.071
9888	8	10.295	23.865					10088	8	9.846	8.541	10162	8	1.764	14.124	10236	26	8.893	20.744
9889	9	10.899	23.213					10089	13	18.389	8.479	10163	18	2.176	14.994	10237*	45	11.086	20.691
9890	6	13.374	23.057					10090	11	20.416	8.268	10164	13	9.776	14.072	10238	20	21.789	20.033
9891	13	15.107	23.328					10091	17	20.951	8.746	10165	15	9.883	14.338	10239	34	21.858	20.769
9892	30	16.683	23.163					10092*	37	22.419	8.924	10166	21	11.682	14.580	10240	6	25.494	20.640
9893	26	17.391	23.967					10093	13	23.466	8.111	10167	12	12.424	14.473	10241	27	3.334	21.929
9894	19	17.564	23.705					10094	6	23.830	8.052	10168	11	13.863	14.251	10242	24	4.688	21.844
9895	24	17.577	23.797					10095	11	23.854	8.694	10169	6	14.895	14.337	10243	6	6.130	21.261
9896*	23	20.199	23.092					10096	14	5.556	9.880	10170*	30	15.232	14.168	10244	20	12.006	21.542
9897	7	20.434	23.660					10097	16	6.098	9.961	10171*	33	21.441	14.399	10245	7	12.028	21.087
9898	6	20.817	23.551					10098	14	7.756	9.512	10172	14	21.878	14.354	10246	10	12.243	21.871
9899	8	21.706	23.717					10099	11	9.518	9.837	10173	9	24.262	14.529	10247	20	15.174	21.359
9900	6	22.292	23.063					10100	7	10.849	9.824	10174	22	1.411	15.626	10248*	21	15.982	21.743
9901	25	23.589	23.856					10101	24	11.295	9.540	10175	23	2.821	15.354	10249	14	19.350	21.434
9902	13	24.240	23.714					10102	9	11.331	9.395	10176	24	6.721	15.532	10250	9	19.715	21.670
9903	13	3.438	24.512					10103	15	11.626	9.364	10177	9	7.702	15.494	10251	13	20.996	21.419
9904	24	3.508	24.053					10104	22	13.598	9.139	10178	23	12.550	15.166	10252	25	22.379	21.184
9905	5	6.089	24.852					10105	15	14.077	9.615	10179	21	12.730	15.710	10253	20	24.124	21.783
9906	21	7.077	24.300					10106	26	14.124	9.661	10180	6	16.168	15.342	10254	13	24.903	21.472
9907	9	8.164	24.730					10107	8	14.491	9.609	10181	12	16.546	15.592	10255	24	6.499	22.146
9908	16	10.129	24.082					10108	10	15.734	9.616	10182*	24	16.861	15.478	10256	14	8.214	22.879
9909*	45	10.541	24.290					10109	18	15.969	9.423	10183	12	17.828	15.619	10257	13	8.790	22.034
9910	13	15.832	24.681					10110	7	17.226	9.437	10184	11	0.764	16.458	10258	11	12.143	22.411
9911	17	16.106	24.776					10111	19	18.140	9.393	10185	26	1.275	16.849	10259	7	12.721	22.569
9912	7	17.767	24.694					10112	6	20.059	9.982	10186*	23	4.067	16.371	10260	16	14.496	22.049
9913	17	20.124	24.266					10113	14	20.881	9.527	10187	11	4.889	16.446	10261	14	15.864	22.819
9914	6	20.911	24.175					10114	9	25.594	9.581	10188							

10267	14	2.663	23.743	10325	12	19.666	0.516	10399*	63	15.484	3.470	10473	19	18.483	7.600	10547	24	13.869	11.776
10268	6	6.272	23.639	10326	18	20.482	0.451	10400	6	16.743	3.324	10474	7	18.658	7.533	10548	11	15.194	11.918
10269	27	8.432	23.891	10327	10	21.524	0.075	10401	15	16.829	3.898	10475	15	19.129	7.388	10549	11	15.733	11.731
10270	6	13.946	23.510	10328	6	21.866	0.277	10402	17	17.135	3.652	10476	5	19.328	7.558	10550	7	18.251	11.469
10271	13	14.683	23.908	10329*	54	22.172	0.227	10403	8	20.713	3.780	10477	22	19.352	7.768	10551	34	18.974	11.817
10272	14	14.922	23.545	10330	6	22.272	0.973	10404	8	23.356	3.353	10478	6	19.618	7.709	10552	6	19.165	11.531
10273	14	16.369	23.719	10331	13	22.645	0.813	10405*	59	24.976	3.213	10479	12	25.082	7.320	10553	6	20.959	11.516
10274	18	18.972	23.155	10332*	23	23.087	0.196	10406	16	24.999	3.479	10480	11	0.914	8.064	10554	6	21.871	11.571
10275	11	22.005	23.064	10333	8	24.189	0.005	10407	18	25.138	3.374	10481	12	1.042	8.518	10555	7	23.866	11.503
10276	12	22.744	23.902	10334	15	1.008	1.268	10408	14	8.522	4.308	10482	8	1.407	8.455	10556	11	1.296	12.633
10277	11	23.794	23.055	10335	6	3.507	1.220	10409	8	10.111	4.229	10483	18	2.442	8.025	10557	5	2.366	12.866
10278*	13	1.069	24.983	10336*	45	6.556	1.733	10410	29	11.883	4.752	10484	8	3.929	8.622	10558	6	4.542	12.530
10279	16	7.335	24.099	10337*	44	8.490	1.970	10411	6	13.078	4.034	10485	13	6.308	8.261	10559	12	5.264	12.485
10280	6	11.324	24.606	10338*	58	11.773	1.254	10412	14	13.318	4.691	10486	14	6.767	8.840	10560*	30	6.934	12.457
10281	16	12.262	24.433	10339*	130	12.317	1.639	10413	22	13.814	4.067	10487	8	6.784	8.718	10561	9	7.022	12.508
10282	13	12.316	24.078	10340	7	13.889	1.561	10414	18	15.677	4.856	10488	10	10.764	8.417	10562	22	7.046	12.640
10283	15	14.768	24.061	10341	10	14.480	1.347	10415*	49	16.604	4.290	10489*	37	11.010	8.288	10563	20	10.254	12.318
10284	8	16.945	24.804	10342	11	14.867	1.314	10416	7	17.823	4.071	10490	18	11.729	8.034	10564	16	10.766	12.697
10285	14	18.913	24.569	10343	23	15.504	1.828	10417	23	20.463	4.854	10491	30	11.974	8.097	10565	7	11.745	12.770
10286	13	19.759	24.087	10344	13	15.505	1.189	10418	24	21.492	4.887	10492	6	13.209	8.230	10566	30	16.238	12.733
10287	8	20.746	24.856	10345	5	16.339	1.917	10419	22	22.484	4.799	10493	5	13.210	8.387	10567	18	16.920	12.256
10288	30	21.245	24.712	10346	23	17.357	1.608	10420	16	24.285	4.798	10494	7	13.967	8.586	10568	6	17.314	12.988
10289*	16	1.131	25.743	10347	13	17.842	1.627	10421	13	1.344	5.904	10495	26	14.541	8.739	10569	17	17.603	12.663
10290	24	3.251	25.778	10348*	45	18.867	1.058	10422	7	1.847	5.373	10496	6	14.826	8.378	10570	5	20.616	12.566
10291	7	8.468	25.142	10349*	64	19.620	1.387	10423	11	4.739	5.284	10497	17	15.282	8.272	10571	10	20.858	12.465
10292	9	17.235	25.678	10350	15	20.192	1.207	10424	13	6.046	5.064	10498	19	22.105	8.505	10572	9	21.774	12.901
10293	18	19.116	25.383	10351	12	21.500	1.866	10425	9	9.439	5.981	10499	6	24.511	8.701	10573	7	24.061	12.283
				10352*	71	21.970	1.825	10426	14	10.864	5.907	10500	16	25.246	8.134	10574	14	25.797	12.124
				10353	6	23.059	1.431	10427	12	12.086	5.777	10501	40	0.014	9.355	10575*	37	1.116	13.699
				10354	5	23.476	1.343	10428	16	16.709	5.139	10502	12	1.443	9.093	10576	9	5.788	13.378
				10355*	61	23.560	1.452	10429*	40	16.719	5.120	10503	7	3.163	9.818	10577	14	5.881	13.890
				10356	9	23.729	1.568	10430	11	17.387	5.449	10504	12	3.206	9.941	10578	10	6.362	13.201
				10357	8	24.983	1.438	10431	7	17.554	5.403	10505	10	4.065	9.926	10579	10	11.828	13.554
				10358	18	25.263	1.424	10432	8	19.734	5.122	10506	13	6.819	9.288	10580	10	12.113	13.799
				10359	23	2.787	2.866	10433	15	20.038	5.421	10507	21	7.539	9.111	10581	7	12.646	13.477
				10360	12	5.479	2.214	10434	6	20.275	5.661	10508	6	9.381	9.933	10582	20	14.188	13.100
				10361	12	7.289	2.687	10435	13	23.887	5.306	10509	11	10.409	9.592	10583	11	14.773	13.504
				10362	24	7.922	2.074	10436*	36	24.405	5.257	10510	11	12.132	9.058	10584	10	16.108	13.497
				10363	11	9.224	2.004	10437	12	0.482	6.884	10511	30	12.759	9.831	10585	14	16.164	13.686
				10364	24	9.888	2.418	10438	7	2.440	6.984	10512	26	13.050	9.128	10586	5	17.052	13.706
				10365*	125	10.626	2.837	10439	11	4.225	6.418	10513	21	13.067	9.431	10587	16	17.161	13.868
				10366*	40	11.621	2.785	10440	15	4.872	6.928	10514	15	13.961	9.424	10588	16	17.419	13.267
				10367	16	11.957	2.404	10441	16	7.912	6.074	10515	6	14.238	9.909	10589*	46	17.609	13.858
				10368	16	12.318	2.331	10442	20	7.967	6.585	10516	16	18.115	9.379	10590	19	18.349	13.333
				10369	17	14.076	2.433	10443	22	8.249	6.783	10517*	51	18.533	9.089	10591	39	19.398	13.131
				10370	14	16.366	2.657	10444	18	8.268	6.505	10518	18	19.019	9.810	10592	13	19.475	13.720
				10371	10	16.842	2.414	10445	10	9.913	6.668	10519	15	19.443	9.158	10593	19	19.576	13.940
				10372	12	18.565	2.917	10446	12	12.533	6.833	10520	10	20.467	9.514	10594	10	19.579	13.216
				10373	6	19.628	2.391	10447	13	14.498	6.199	10521	13	25.648	9.505	10595	23	19.835	13.203
				10374	15	20.082	2.694	10448	24	15.276	6.782	10522	7	0.906	10.524	10596	22	20.805	13.926
				10375	8	21.638	2.982	10449	8	18.109	6.381	10523	22	2.014	10.628	10597	31	22.944	13.619
				10376*	57	21.743	2.004	10450	5	18.189	6.128	10524	12	4.289	10.410	10598*	30	24.421	13.821
				10377	12	21.802	2.220	10451	6	19.140	6.518	10525	7	4.379	10.123	10599	9	1.982	14.917
				10378	11	22.868	2.230	10452	8	21.886	6.572	10526	12	4.950	10.598	10600	10	5.108	14.204
				10379	10	22.895	2.816	10453	27	25.243	6.762	10527	7	5.370	10.347	10601*	29	6.769	14.187
				10380	15	24.650	2.874	10454	13	0.755	7.633	10528*	57	6.592	10.205	10602	14	6.850	14.445
				10381	7	24.650	2.958	10455	7	1.294	7.743	10529	14	8.037	10.092	10603	11	7.894	14.013
				10382	14	25.937	2.422	10456	12	6.435	7.527	10530	14	13.137	10.921	10604	13	10.793	14.066
				10383	17	3.484	3.694	10457*	25	8.266	7.714	10531	21	14.021	10.849	10605*	51	12.745	14.004
				10384	21	4.098	3.028	10458	30	9.188	7.050	10532	24	15.145	10.731	10606	14	13.050	14.959
				10385*	33	4.373	3.165	10459*	90	10.502	7.296	10533	16	16.058	10.628	10607	38	13.691	14.922
				10386	19	4.643	3.772	10460	13	10.858	7.877	10534	13	16.415	10.935	10608	12	19.002	14.362
				10387	10	4.786	3.065	10461	30	11.157	7.856	10535	5	17.249	10.914	10609	8	21.201	14.452
				10388	9	5.616	3.065	10462	6	12.272	7.752	10536	9	17.340	10.222	10610	8	22.334	14.563
				10389	9	7.194	3.616	10463	12	12.883	7.282	10537	7	17.407	10.234	10611	14	22.588	14.582
				10390*	46	7.340	3.919	10464	7	13.116	7.301	10538	17	17.951	10.779	10612	10	23.004	14.017
				10391	21	7.484	3.284	10465	10	13.136	7.624	10539	6	18.023	10.466	10613	15	23.168	14.143
				10392	11	7.922	3.908	10466	13	13.633	7.658	10540							

10621	22	12°9'26"	15°5'54"	10695*	38	7°48'6"	19°8'11"	10769	13	3°50'9"	23°20'7"	10911	9	15°8'65"	0°08'5"	10985	8	14°5'66"	6°44'9"
10622	5	14°0'30"	15°6'99"	10696	10	7°8'10"	19°8'55"	10770	9	4°9'54"	23°0'13"	10912	10	22°5'86"	0°5'60"	10986	8	16°1'06"	6°9'19"
10623	30	16°4'33"	15°5'35"	10697	18	8°6'25"	19°6'10"	10771	17	5°5'98"	23°8'66"	10913	14	24°0'16"	0°6'58"	10987	8	16°3'69"	6°4'72"
10624	7	18°2'11"	15°3'31"	10698	14	9°3'29"	19°7'31"	10772	12	6°7'69"	23°7'03"	10914*	54	1°5'74"	1°6'30"	10988	8	16°9'63"	6°5'19"
10625	5	22°4'67"	15°5'45"	10699	10	11°8'10"	19°7'07"	10773	16	8°5'77"	23°6'14"	10915	14	3°2'77"	1°5'78"	10989	12	18°3'88"	6°9'62"
10626	5	25°2'64"	15°9'83"	10700*	29	11°9'19"	19°4'68"	10774	9	10°6'69"	23°4'61"	10916	10	9°4'21"	1°8'95"	10990	14	19°0'80"	6°9'98"
10627	7	25°6'66"	15°8'73"	10701	17	12°6'43"	19°7'15"	10775	8	12°7'38"	23°1'63"	10917	8	10°6'78"	1°6'93"	10991	10	21°7'00"	6°7'62"
10628	27	0°8'91"	16°7'03"	10702	22	12°7'41"	19°9'75"	10776	25	13°5'66"	23°8'57"	10918	12	12°6'01"	1°4'74"	10992	7	23°5'07"	6°6'96"
10629	30	5°5'85"	16°4'20"	10703*	41	14°3'52"	19°3'47"	10777	15	14°0'24"	23°3'50"	10919	14	12°9'53"	1°7'40"	10993	8	3°1'69"	7°4'75"
10630	5	6°2'21"	16°5'39"	10704	7	15°5'70"	19°9'66"	10778	6	15°0'67"	23°0'62"	10920	11	13°8'08"	1°7'45"	10994	9	4°3'95"	7°5'77"
10631	7	6°8'69"	16°9'03"	10705	10	16°3'12"	19°9'93"	10779	12	15°9'74"	23°1'21"	10921	9	16°8'81"	1°6'66"	10995	10	5°5'74"	7°7'58"
10632	9	8°1'73"	16°2'72"	10706	9	18°9'61"	19°0'20"	10780	14	18°4'13"	23°1'69"	10922	10	17°1'76"	1°3'55"	10996	8	6°9'79"	7°3'69"
10633	8	8°1'83"	16°5'88"	10707	11	20°4'88"	19°2'37"	10781	14	18°5'94"	23°2'78"	10923	20	17°9'60"	1°7'83"	10997	9	7°2'72"	7°9'56"
10634	6	8°7'53"	16°3'47"	10708	16	21°3'64"	19°1'14"	10782	6	24°3'87"	23°7'70"	10924	22	18°2'80"	1°6'59"	10998	8	9°0'42"	7°0'52"
10635	7	10°6'45"	16°4'12"	10709	15	21°4'43"	19°0'29"	10783	7	0°6'77"	24°3'30"	10925	12	20°0'93"	1°5'94"	10999	9	9°5'66"	7°3'28"
10636*	41	11°5'65"	16°5'45"	10710	9	22°7'38"	19°4'41"	10784	21	4°1'18"	24°2'01"	10926	12	21°7'44"	1°7'67"	11000	7	10°0'75"	7°6'85"
10637	26	12°1'14"	16°3'70"	10711	8	24°8'62"	19°3'25"	10785	6	6°7'54"	24°8'08"	10927	10	22°9'53"	1°2'03"	11001	11	12°3'04"	7°0'63"
10638	5	12°3'79"	16°7'66"	10712	15	1°0'94"	20°4'10"	10786	6	7°2'08"	24°7'09"	10928	12	25°2'31"	1°8'30"	11002	10	14°5'56"	7°5'34"
10639	8	13°0'15"	16°6'74"	10713	6	1°3'30"	20°3'66"	10787	17	10°4'63"	24°7'31"	10929	11	3°9'63"	2°5'69"	11003	10	24°6'42"	7°1'36"
10640	7	14°9'00"	16°9'03"	10714	7	1°9'97"	20°2'27"	10788	16	11°5'15"	24°8'65"	10930	11	5°3'78"	2°0'02"	11004	12	0°2'10"	8°6'99"
10641*	31	15°3'60"	16°8'42"	10715	5	5°5'07"	20°2'81"	10789	8	16°2'66"	24°6'50"	10931	12	7°9'85"	2°2'07"	11005	12	3°3'48"	8°2'88"
10642	13	17°4'13"	16°0'86"	10716	5	6°4'32"	20°0'18"	10790	13	17°9'14"	24°9'00"	10932	9	15°8'92"	2°8'76"	11006	9	4°7'10"	8°6'89"
10643	15	17°5'55"	16°5'88"	10717	19	9°9'15"	20°6'46"	10791	9	18°3'09"	24°6'78"	10933	10	16°0'11"	2°7'46"	11007	11	6°8'65"	8°3'30"
10644	12	21°1'88"	16°3'09"	10718	30	10°9'40"	20°8'59"	10792	9	18°8'71"	24°1'53"	10934	9	17°6'98"	2°1'62"	11008	18	10°6'98"	8°1'27"
10645	7	22°2'67"	16°4'55"	10719	8	11°8'60"	20°4'44"	10793*	35	19°8'67"	24°7'43"	10935	10	18°2'09"	2°7'58"	11009	8	11°2'69"	8°1'85"
10646	16	22°4'87"	16°2'59"	10720	8	12°0'55"	20°3'48"	10794	7	23°8'03"	24°5'40"	10936	9	19°3'70"	2°5'74"	11010	12	13°8'64"	8°1'49"
10647	13	22°5'62"	16°4'09"	10721	7	12°2'94"	20°0'10"	10795	11	5°3'57"	25°6'23"	10937*	51	22°0'55"	2°9'97"	11011	15	14°7'54"	8°8'58"
10648	9	23°8'09"	16°6'59"	10722	37	12°8'49"	20°8'72"	10796*	52	6°7'96"	25°7'94"	10938	13	22°5'52"	2°5'66"	11012	12	15°6'26"	8°9'53"
10649	8	23°9'77"	16°7'54"	10723	12	13°4'62"	20°4'79"	10797	13	7°0'97"	25°5'89"	10939	10	2°6'85"	3°0'36"	11013	8	18°5'59"	8°0'59"
10650*	85	24°4'54"	16°2'43"	10724	15	15°3'61"	20°5'51"	10798	7	7°6'46"	25°4'53"	10940*	51	3°0'14"	3°3'72"	11014	9	3°7'68"	9°6'55"
10651	13	1°3'89"	17°4'85"	10725	7	15°4'43"	20°9'24"	10799	20	8°0'03"	25°3'60"	10941	12	3°0'36"	3°6'36"	11015	24	5°8'13"	9°4'90"
10652	8	1°9'31"	17°5'30"	10726	7	17°1'31"	20°8'45"	10800	17	8°0'95"	25°2'03"	10942	11	3°1'74"	3°5'29"	11016	10	6°3'20"	9°2'18"
10653	13	4°4'80"	17°1'82"	10727	12	17°4'80"	20°9'81"	10801	13	9°5'94"	25°4'33"	10943*	31	5°7'06"	3°6'48"	11017	9	6°4'01"	9°0'59"
10654*	51	4°9'91"	17°4'08"	10728	12	19°0'56"	20°0'85"	10802	10	11°5'02"	25°6'77"	10944	9	11°3'78"	3°8'43"	11018	12	6°9'39"	9°8'63"
10655	32	4°9'93"	17°4'52"	10729	14	20°3'95"	20°5'69"	10803*	23	11°7'83"	25°3'48"	10945	9	14°6'19"	3°4'75"	11019	14	8°5'33"	9°4'67"
10656	20	5°6'90"	17°0'50"	10730	14	21°9'12"	20°7'13"	10804	10	12°8'67"	25°0'19"	10946	10	15°2'11"	3°3'74"	11020	14	13°6'14"	9°1'59"
10657	12	6°8'86"	17°9'89"	10731	25	23°5'53"	20°4'62"	10805	12	13°4'81"	25°2'33"	10947	13	17°1'18"	3°2'35"	11021	9	19°2'42"	9°4'55"
10658*	40	7°0'55"	17°9'51"	10732	23	0°2'50"	21°6'16"	10806	13	14°3'09"	25°4'77"	10948	9	17°8'00"	3°2'76"	11022	12	21°7'07"	9°0'51"
10659	11	8°2'53"	17°6'54"	10733	11	2°7'81"	21°8'50"	10807	16	14°3'21"	25°4'47"	10949	12	19°1'52"	3°6'98"	11023	15	24°6'53"	9°6'70"
10660	10	12°4'98"	17°0'96"	10734	7	3°0'05"	21°4'17"	10808	15	20°6'98"	25°7'95"	10950	10	20°1'76"	3°5'62"	11024	9	2°0'17"	10°8'96"
10661	10	14°3'91"	17°4'45"	10735	10	3°5'78"	21°2'34"	10809	6	22°8'15"	25°5'17"	10951	11	23°0'73"	3°5'20"	11025	12	5°7'07"	10°3'31"
10662	19	14°8'57"	17°5'69"	10736	20	5°2'68"	21°6'50"					10952	13	25°9'22"	3°0'94"	11026	23	6°8'19"	10°5'84"
10663	9	19°9'93"	17°3'50"	10737	11	5°8'10"	21°8'42"					10953	13	0°5'41"	4°9'00"	11027	9	8°3'44"	10°6'55"
10664	11	21°5'73"	17°4'65"	10738	12	7°5'97"	21°5'69"					10954	9	2°3'43"	4°9'67"	11028	10	12°1'47"	10°4'46"
10665	14	21°8'61"	17°3'56"	10739	14	8°0'45"	21°8'50"					10955	21	4°9'91"	4°5'28"	11029	14	12°7'82"	10°8'89"
10666	8	22°0'62"	17°6'94"	10740	6	11°6'07"	21°8'76"					10956	10	5°7'39"	4°1'83"	11030	9	13°6'88"	10°6'38"
10667*	31	23°2'79"	17°0'27"	10741	5	12°4'81"	21°2'60"					10957	7	6°2'51"	4°0'07"	11031*	37	15°7'11"	10°6'83"
10668	16	23°5'15"	17°2'24"	10742	13	13°0'34"	21°7'83"					10958	8	8°5'67"	4°3'04"	11032	12	16°6'53"	10°4'14"
10669	6	24°1'21"	17°7'49"	10743	10	13°2'83"	21°7'40"					10959*	14	11°1'98"	4°5'43"	11033	7	16°7'77"	10°5'93"
10670	13	24°6'91"	17°3'39"	10744	12	13°3'87"	21°1'42"					10960*	21	13°2'39"	4°2'51"	11034	9	20°0'79"	10°1'65"
10671	10	1°0'50"	18°7'51"	10745	5	17°0'25"	21°8'45"					10961	13	15°2'50"	4°3'00"	11035*	53	5°6'52"	11°3'66"
10672	7	1°8'21"	18°3'78"	10746	12	17°7'44"	21°6'91"					10962	15	16°2'17"	4°9'20"	11036	8	6°6'34"	11°8'33"
10673	5	3°8'18"	18°0'36"	10747	14	23°4'82"	21°8'03"					10963	13	18°4'64"	4°2'99"	11037*	49	7°7'77"	11°4'13"
10674*	21	3°8'75"	18°3'48"	10748*	29	23°6'10"	21°7'79"					10964	12	22°0'11"	4°1'73"	11038*	17	11°5'91"	11°8'05"
10675*	39	6°4'34"	18°4'71"	10749	6	23°8'46"	21°3'92"					10965	9	22°7'38"	4°1'71"	11039	13	13°2'99"	11°1'74"
10676	10	6°5'63"	18°3'18"	10750	15	25°5'12"	21°7'67"					10966	8	1°9'51"	5°4'78"	11040	12	19°7'09"	11°3'45"
10677	16	6°6'23"	18°0'17"	10751	7	1°9'49"	22°6'31"					10967*	29	2°4'67"	5°4'24"	11041	8	22°0'39"	11°5'22"
10678	11	9°2'25"	18°5'50"	10752	16	2°0'09"	22°1'75"					10968	9	4°7'42"	5°5'18"	11042	14	23°4'65"	11°6'27"
10679	26	9°3'99"	18°3'82"	10753*	36	6°4'79"	22°7'33"					10969	10	8°8'05"	5°9'41"	11043	9	24°5'61"	11°4'06"
10680	11	10°3'87"	18°8'03"	10754	8	9°2'24"	22°3'78"					10970	15	11°4'97"	5°4'09"	11044	8	3°9'52"	12°2'72"
10681	14	10°5'44"	18°7'32"	10755	9	9°7'78"	22°9'28"					10971	9	14°0'97"	5°5'51"	11045	8	9°1'71"	12°6'77"
10682	8	10°5'72"	18°2'05"	10756	13	10°8'26"	22°5'34"					10972	7	14°7'29"	5°8'77"	11046	10	11°6'25"	12°1'81"
10683	8	11°2'19"	18°5'98"	10757*	34														

11059	10	16.161	13.683	11133	8	12.448	19.415	11257	13	1.665	5.343	11331	15	20.328	11.411
11060	11	18.520	13.512	11134	8	14.075	19.368	11258	20	2.993	5.922	11332	9	21.001	11.842
11061	9	22.438	13.802	11135	11	14.433	19.524	11259	12	4.159	5.432	11333	10	21.229	11.714
11062	12	23.007	13.293	11136	17	21.386	19.916	11260	11	4.244	5.037	11334	9	23.055	11.677
11063	10	23.040	13.287	11137	10	24.544	19.502	11261*	39	6.957	5.945	11335	21	23.329	11.327
11064	12	23.477	13.742	11138	18	25.659	19.855	11262	10	11.189	5.733	11336	11	0.797	12.222
11065	14	24.373	13.065	11139	17	25.809	19.985	11263	10	14.288	5.898	11337	13	3.526	12.308
11066	9	0.773	14.773	11140	31	25.852	19.615	11264	16	15.161	5.376	11338	10	4.990	12.21
11067	9	1.178	14.201	11141	12	0.174	20.915	11265	13	15.692	5.984	11339*	29	5.164	12.180
11068	11	1.347	14.323	11142	16	1.814	20.640	11266	11	1.341	6.150	11340	12	5.758	12.197
11069*	22	4.850	14.315	11143	14	6.581	20.024	11267	12	1.733	6.849	11341	21	7.290	12.329
11070	9	6.523	14.639	11144	20	8.034	20.620	11268	10	3.607	6.633	11342	12	8.755	12.616
11071*	27	10.008	14.089	11145	8	10.603	20.371	11269*	32	5.098	6.554	11343	22	14.389	12.856
11072	7	10.748	14.911	11146	8	10.749	20.726	11270	19	8.094	6.856	11344	10	17.649	12.618
11073	8	18.382	14.878	11147*	29	11.282	20.631	11271	12	11.250	6.353	11345	9	18.936	12.271
11074	13	18.751	14.589	11148	12	12.187	20.988	11272	9	11.449	6.062	11346	9	21.699	12.304
11075	10	18.991	14.575	11149	10	15.400	20.903	11273	23	11.728	6.505	11347*	27	22.355	12.639
11076	8	21.055	14.856	11150	11	17.836	20.183	11274	12	12.257	6.007	11348	9	22.928	12.580
11077	11	25.075	14.141	11151	8	18.472	20.710	11275	10	13.310	6.704	11349	12	25.896	12.480
11078	10	8.872	15.809	11152	9	1.760	21.983	11276	10	16.882	6.706	11350	18	1.344	13.453
11079*	32	10.268	15.828	11153*	23	1.888	21.954	11277	12	17.313	6.108	11351	9	1.369	13.449
11080	8	13.369	15.514	11154	13	3.792	21.918	11278	10	17.874	6.475	11352	14	1.823	13.893
11081	12	14.139	15.805	11155	9	6.969	21.855	11279*	21	23.776	6.404	11353	18	2.706	13.202
11082	8	17.530	15.247	11156*	43	7.116	21.403	11280	12	24.074	6.266	11354	12	8.092	13.159
11083	11	18.115	15.322	11157	9	9.588	21.115	11281	22	25.662	6.557	11355	12	8.623	13.497
11084	13	18.123	15.067	11158	9	9.680	21.836	11282	11	2.876	7.269	11356*	38	16.344	13.704
11085	8	20.967	15.945	11159	10	10.081	21.758	11283	11	5.299	7.214	11357	9	18.512	13.528
11086	12	24.178	15.182	11160	10	11.331	21.791	11284*	19	6.217	7.886	11358*	21	19.890	13.488
11087	12	0.693	16.452	11161	9	11.862	21.596	11285	15	10.698	7.234	11359	12	24.055	13.414
11088	8	0.768	16.600	11162	8	14.235	21.592	11286	13	12.934	7.817	11360	23	24.058	13.964
11089	10	2.189	16.926	11163	10	18.619	21.451	11287	10	13.022	7.187	11361	9	24.261	13.289
11090*	73	2.659	16.405	11164	11	20.165	21.530	11288	11	17.853	7.061	11362	12	3.426	14.267
11091	24	4.803	16.559	11165	14	1.028	22.625	11289	9	17.911	7.170	11363	10	8.870	14.777
11092	10	5.041	16.557	11166	7	1.341	22.745	11290	17	22.953	7.244	11364*	22	18.632	14.388
11093	8	6.526	16.882	11167	10	2.111	22.569	11291	10	23.715	7.288	11365*	31	20.579	14.866
11094	11	7.834	16.763	11168	12	4.387	22.078	11292	12	25.759	7.331	11366	14	2.546	15.319
11095	9	7.967	16.686	11169	16	4.853	22.052	11293	12	5.463	8.777	11367	13	19.982	15.512
11096	12	11.857	16.200	11170	7	5.343	22.206	11294	9	6.962	8.344	11368	10	20.501	15.107
11097	10	15.877	16.639	11171	9	6.338	22.426	11295	17	14.765	8.944	11369	13	23.947	15.087
11098	10	17.380	16.132	11172*	14	6.786	22.804	11296*	34	17.081	8.945	11370	9	25.117	15.551
11099	12	21.060	16.802	11173	8	7.870	22.884	11297	21	18.280	8.210	11371	10	25.476	15.319
11100	14	0.081	17.556	11174	10	14.375	22.287	11298	10	19.236	8.953	11372	19	6.647	16.667
11101*	23	1.497	17.209	11175	9	15.395	22.232	11299	20	24.542	8.024	11373	12	9.248	16.030
11102	11	1.736	17.400	11176	9	16.676	22.738	11300	17	2.928	9.805	11374	11	11.110	16.252
11103	11	2.913	17.500	11177	12	19.845	22.099	11301	10	3.751	9.112	11375	9	18.788	16.897
11104*	24	5.500	17.038	11178	17	21.074	22.130	11302	11	15.086	9.894	11376	18	25.759	16.171
11105*	30	9.180	17.109	11179	12	14.528	23.729	11303	14	16.069	9.733	11377	14	0.069	17.194
11106	9	10.112	17.930	11180	11	15.310	23.648	11304	13	17.618	9.684	11378	10	2.476	17.717
11107*	22	10.976	17.113	11181	13	16.888	23.712	11305	18	21.671	9.606	11379	12	2.862	17.476
11108*	61	11.480	17.605	11182	17	21.321	23.781	11306	10	22.126	9.887	11380	10	6.515	17.511
11109*	27	14.467	17.638	11183	14	21.985	23.051	11307	13	4.711	10.722	11381	15	8.928	17.399
11110	10	14.778	17.282	11184*	37	7.714	24.179	11308*	30	5.333	10.405	11382	14	9.566	17.849
11111	14	15.025	17.416	11185*	18	7.815	24.210	11309	12	5.391	10.704	11383	10	18.996	17.275
11112	22	15.939	17.339	11186	10	25.554	24.323	11310	10	6.697	10.697	11384	17	19.947	17.759
11113	7	16.407	17.384	11187	12	5.340	25.837	11311	10	8.124	10.615	11385	17	21.523	17.646
11114	11	16.615	17.893	11188*	39	5.444	25.660	11312	11	15.014	10.319	11386	10	23.604	17.962
11115	10	21.669	17.014	11189	12	9.401	25.803	11313	12	15.527	10.513	11387	12	0.676	18.805
11116	9	24.069	17.573	11190	11	12.407	25.300	11314	14	17.250	10.779	11388	9	2.516	18.631
11117	12	24.457	17.342					11315	11	19.301	10.343	11389	19	3.669	18.061
11118	12	25.257	17.941					11316	16	20.866	10.939	11390	9	6.430	18.253
11119	9	6.251	18.581					11317	15	22.353	10.213	11391	10	6.842	18.563
11120	20	10.550	18.478					11318	10	0.347	11.696	11392	10	8.045	18.649
11121*	42	11.377	18.165					11319	20	1.773	11.779	11393	11	10.485	18.586
11122*	13	18.609	18.572					11320	12	2.865	11.540	11394	9	11.651	18.088
11123	8	19.245	18.549					11321	10	4.979	11.763	11395	10	15.532	18.636
11124	10	20.878	18.453					11322	11	6.832	11.422	11396	12	17.162	18.682
11125	12	22.252	18.635					11323	9	11.102	11.724	11397	15	17.659	18.564
11126	8	24.089	18.489					11324	12	11.517	11.026	11398	12	18.008	18.574
11127	8	5.230	19.539					11325	11	12.185	11.498	11399	11	18.398	18.546
11128*	30	6.605	19.661					11326	14	13.668	11.477	11400	13	19.856	18.435
11129	9	9.034	19.068					11327	13	17.378	11.436	11401	12	24.409	18.659
11130	9	9.035	19.342					11328	10	17.640	11.308	11402*	58	25.351	18.290
11131	12	11.647	19.564					11329	9	18.639	11.770	11403	18	25.833	18.864
11132	10	12.197	19.101					11330	9	19.698	11.045	11404	10	2.979	19.635

R. A. 3^h 56^m

Plate 1278; 1899 Jan. 26.

Provisional Constants.

A B C
 -00018 +00896 -3805

D E F
 -00939 -00015 +0592

Mag. = 15.8 - 1.25 \sqrt{d}

No.	d	x	y
11201	11	0.708	0.724
11202	12	2.144	0.802
11203	12	8.206	0.531
11204	10	11.809	0.584
11205	11	14.044	0.055
11206	12	14.172	0.257
11207	13	15.432	0.353
11208	11	16.646	0.681
11209	11	20.259	0.599
11210	10	22.590	0.708
11211	25	23.051	0.59

11405	22	4°102	19°969	11479	11	23°310	24°443	11544	8	15°716	6°362	11618	9	21°929	16°419	11692	10	6°612	25°534
11406*	32	4°294	19°723	11480*	61	23°654	24°166	11545	9	20°316	6°171	11619	11	5°516	17°778	11693	9	12°287	25°586
11407	16	5°542	19°740	11481	15	24°394	24°231	11546	9	21°717	6°354	11620	12	8°001	17°156	11694	14	13°154	25°194
11408	9	5°641	19°943	11482	9	25°871	24°273	11547*	30	22°655	6°852	11621	9	18°052	17°872	11695	11	17°308	25°763
11409	10	5°754	19°856	11483	11	4°901	25°089	11548	22	1°044	7°498	11622	12	23°446	17°338	11696	11	18°248	25°734
11410	14	7°317	19°539	11484	15	6°973	25°257	11549	9	1°811	7°533	11623	10	1°868	18°207	11697	12	19°876	25°077
11411	24	8°474	19°103	11485	19	9°362	25°928	11550	11	3°858	7°544	11624	8	2°192	18°383	11698	11	21°552	25°777
11412*	22	10°443	19°873	11486	9	18°206	25°150	11551*	30	17°660	7°859	11625	16	2°684	18°894	11699*	19	23°155	25°459
11413	11	12°418	19°275					11552	12	19°223	7°239	11626	10	3°069	18°098	11700	24	23°726	25°806
11414	10	13°443	19°917					11553	11	21°073	7°137	11627*	49	3°617	18°507				
11415	10	15°549	19°540					11554	16	23°560	7°600	11628*	9	4°054	18°142				
11416*	18	17°589	19°433					11555	18	2°645	8°256	11629	11	4°569	18°324				
11417	12	17°929	19°879					11556	9	6°422	8°288	11630	10	5°970	18°883				
11418	11	18°773	19°032					11557	10	8°364	8°542	11631	12	11°195	18°315				
11419	23	19°663	19°853					11558	12	8°476	8°726	11632	20	11°693	18°644				
11420	13	20°631	19°476					11559	16	15°717	8°560	11633	12	12°549	18°389				
11421	11	21°318	19°954					11560	19	18°856	8°286	11634	11	16°344	18°478				
11422*	30	23°413	19°077					11561	9	15°485	9°156	11635	12	18°954	18°654				
11423*	24	4°256	20°097					11562	14	0°494	10°478	11636	11	20°241	18°926				
11424	12	6°583	20°783					11563	10	0°755	10°603	11637	10	25°395	18°923				
11425	11	9°148	20°529					11564	11	1°916	10°117	11638*	35	1°694	19°325				
11426	11	11°728	20°094					11565	15	4°470	10°250	11639	13	4°112	19°076				
11427	13	12°446	20°772					11566	10	5°868	10°731	11640	10	7°388	19°540				
11428*	23	12°461	20°660					11567	10	9°913	10°364	11641	11	11°035	19°767				
11429*	30	13°470	20°598					11568	22	23°125	10°267	11642	9	11°263	19°973				
11430*	44	14°546	20°633					11569	10	23°161	10°484	11643	10	19°883	19°645				
11431	23	15°059	20°145					11570	15	24°495	10°424	11644	10	21°060	19°512				
11432	9	16°772	20°706					11571	22	25°498	10°791	11645	11	22°319	19°128				
11433	10	19°154	20°379					11572	22	1°489	11°574	11646	12	23°188	19°132				
11434	10	21°389	20°294					11573	10	20°354	11°452	11647	12	24°858	19°795				
11435	16	22°517	20°969					11574	9	22°354	11°849	11648	10	25°743	19°617				
11436	10	4°417	21°058					11575	12	23°864	11°897	11649	10	25°908	19°405				
11437	11	5°829	21°863					11576	10	24°989	11°950	11650	9	5°180	20°698				
11438	10	5°952	21°865					11577*	34	0°537	12°903	11651	11	6°873	20°557				
11439	10	9°369	21°946					11578	12	1°108	12°834	11652*	40	8°917	20°345				
11440	14	10°199	21°893					11579	12	4°076	12°688	11653	10	18°114	20°160				
11441	12	10°531	21°531					11580*	22	12°946	12°163	11654	13	25°146	20°544				
11442	21	11°987	21°490					11581	9	14°179	12°939	11655	10	0°827	21°233				
11443	12	12°124	21°927					11582	9	21°926	12°974	11656	11	5°258	21°782				
11444	12	12°286	21°815					11583	11	22°973	12°107	11657*	34	17°452	21°607				
11445	16	20°213	21°823					11584	10	24°805	12°137	11658	12	20°007	21°451				
11446	9	6°783	22°474					11585	10	25°003	12°024	11659	12	20°475	21°305				
11447	10	7°688	22°636					11586	15	2°247	13°652	11660	12	22°902	21°151				
11448	13	9°094	22°419					11587	10	7°454	13°304	11661	9	23°627	21°685				
11449	10	9°459	22°131					11588	10	8°438	13°892	11662*	46	0°713	22°930				
11450	12	13°154	22°394					11589	22	10°948	13°319	11663	9	2°254	22°803				
11451	10	14°667	22°849					11590	10	15°943	13°791	11664	10	16°199	22°183				
11452	12	16°920	22°390					11591	17	19°561	13°883	11665*	38	19°235	22°361				
11453	13	19°464	22°389					11592	18	23°064	13°478	11666	11	19°744	22°373				
11454	10	20°702	22°175					11593	20	23°386	13°054	11667	22	21°814	22°486				
11455*	34	22°378	22°664					11594	12	25°370	13°611	11668	11	23°523	22°177				
11456	13	0°484	23°228					11595	23	2°259	14°204	11669	9	24°625	22°137				
11457	20	9°170	23°818					11596	8	13°028	14°698	11670	8	3°137	23°049				
11458	9	13°334	23°442					11597*	32	14°171	14°162	11671	9	12°865	23°003				
11459	12	13°578	23°565					11598	10	14°199	14°612	11672	10	15°081	23°414				
11460	10	13°776	23°906					11599	9	14°479	14°686	11673	19	15°191	23°933				
11461	12	14°807	23°043					11600	10	16°820	14°104	11674	9	17°299	23°472				
11462	11	16°579	23°550					11601	18	17°257	14°522	11675	9	18°245	23°265				
11463	12	17°173	23°412					11602	10	18°275	14°427	11676	14	20°063	23°877				
11464	11	18°774	23°227					11603	9	18°674	14°108	11677	8	21°115	23°979				
11465	10	19°093	23°820					11604	11	23°068	14°407	11678	9	21°311	23°248				
11466*	28	20°140	23°997					11605	16	2°165	15°327	11679	11	25°296	23°718				
11467	11	20°162	23°996					11606	10	3°698	15°534	11680	9	1°674	24°695				
11468	10	22°783	23°416					11607	10	11°866	15°464	11681*	61	2°016	24°407				
11469	11	3°405	24°720					11608	16	14°266	15°848	11682	12	2°756	24°465				
11470	9	4°076	24°443					11609	10	15°902	15°327	11683	11	4°233	24°479				
11471*	10	5°236	24°468					11610	10	21°594	15°505	11684	12	11°404	24°898				
11472	11	8°153	24°505					11611	11	1°804	16°326	11685	11	13°882	24°425				
11473	11	12°126	24°187					11612	16	3°994	16°383	11686	10	13°983	24°001				
11474	12	12°194	24°616					11613	18	5°750	16°870	11687	11	14°833	24°574				
11475	11	13°507	24°374					11614	10	10°487	16°643	11688	23	20°303	24°018				
11476	10	14°123	24°123					11615	17	12°489	16°408	11689	10	23°422	24°003				
11477	15	20°988	24°279					11616	11	16°494	16°755	11690*	68	24°795	24°949				
11478	15	22°663	24°940					11617	11	21°879	16°438	11691	14	1°035	25°199				

R. A. 4^h 4^m

Plate 1279; 1899 Jan. 26.

Provisional Constants.

A	B	C
-00025	+01022	-4664

D	E	F
-01052	-00008	+1006

Mag. = 16.2 - 1.25√d

No.	d	x	y
11501	27	1°040	0°847
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11503	10	7°618	0°507
11504	10	8°133	0°241
11505	19	9°464	0°507
11506	12	14°803	0°067
11507	9	19°714	0°621
11508	9	0°649	1°268
11509	12	6°795	1°755
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11511	10	13°541	1°869
11512	13	23°813	1°383
11513	15	0°914	2°205
11514	9	2°372	2°701
11515	9	16°156	2°630
11516*	32	17°596	2°991
11517	21	19°798	2°046
11518	24	0°754	3°540
11519	12	8°302	3°196
11520	9	11°593	3°297
11521	20	12°760	3°656
11522	10	12°802	3°016
11523	10	12°985	3°083
11524	11	17°453	3°510
11525	9	17°918	3°326
11526	10	1°763	4°323
11527	9	4°933	4°689
11528	9	6°796	4°647
11529	13	8°547	4°743
11530	16	14°732	4°782
11531*	32	18°060	4°642
11532	23	4°556	5°516
11533	21	7°720	5°465
11534	12	7°791	5°954
11535	12	19°383	5°307
11536	9	20°921	5°148
11537*	22	1°858	6°648
11538	11	2°152	6°506
11539	21	3°748	6°769
11540	9	8°196	6°438
11541	10	9°021	6°256
11542	12	11°916	6°104
11543	11	15°634	6°290

11743	9	9'490	4'764	11817	9	1'378	14'544	11891*	40	19'296	19'930	11965	10	16'355	24'715	12028	10	5'387	3'022
11744	9	10'982	4'523	11818*	13	6'160	14'754	11892	9	19'436	19'112	11966	9	17'987	24'718	12029*	54	5'764	3'072
11745*	30	12'447	4'902	11819	8	10'690	14'481	11893	12	25'127	19'409	11967	8	19'941	24'983	12030	20	6'963	3'609
11746	9	12'731	4'551	11820	8	21'474	14'739	11894	12	3'529	20'657	11968	10	20'476	24'442	12031	10	7'482	3'239
11747	9	12'775	4'441	11821	9	24'407	14'217	11895	8	4'219	20'289	11969	20	25'830	24'939	12032	14	8'871	3'227
11748	10	19'062	4'262	11822	12	25'072	14'339	11896	10	5'371	20'523	11970	17	25'948	24'527	12033	11	10'670	3'466
11749	9	19'916	4'418	11823	11	1'720	15'566	11897	9	6'933	20'651	11971*	15	1'587	25'595	12034	8	14'338	3'959
11750	8	19'974	4'887	11824	8	3'295	15'960	11898	10	8'507	20'743	11972	21	2'162	25'937	12035	12	15'024	3'013
11751	9	6'985	5'277	11825	8	4'873	15'493	11899	20	9'129	20'360	11973*	52	3'222	25'065	12036*	29	17'612	3'519
11752	8	9'450	5'082	11826	9	5'191	15'121	11900	8	11'002	20'342	11974	10	4'011	25'365	12037	11	2'745	4'091
11753	9	12'726	5'998	11827	7	13'468	15'589	11901	8	15'814	20'265	11975	12	4'835	25'202	12038	9	9'333	4'182
11754	13	15'682	5'065	11828	8	16'139	15'778	11902	9	15'966	20'817	11976	9	5'464	25'051	12039	10	11'097	4'536
11755	9	20'809	5'620	11829	9	18'918	15'591	11903	12	18'413	20'570	11977	10	9'135	25'951	12040	12	17'507	4'256
11756	9	22'295	5'112	11830	8	21'670	15'344	11904	10	20'970	20'101	11978	11	9'605	25'902	12041	10	0'494	5'293
11757	11	25'758	5'470	11831	7	21'968	15'998	11905	13	1'287	21'287	11979	13	11'852	25'058	12042	12	3'402	5'008
11758	11	0'857	6'147	11832	12	0'215	16'589	11906	15	2'022	21'815	11980	9	15'685	25'398	12043	11	3'967	5'601
11759*	30	0'889	6'990	11833	11	0'265	16'569	11907	8	3'707	21'509	11981	11	16'150	25'243	12044	21	4'559	5'943
11760	8	4'044	6'511	11834*	22	7'580	16'172	11908	9	5'451	21'471	11982	11	16'766	25'778	12045	10	5'847	5'785
11761	10	10'079	6'526	11835	11	8'302	16'100	11909	9	5'781	21'302	11983	12	17'167	25'460	12046	12	6'835	5'870
11762	12	12'039	6'739	11836	8	12'936	16'064	11910	12	6'198	21'449	11984	13	17'348	25'829	12047	12	7'921	5'817
11763	10	12'375	6'434	11837	7	20'963	16'697	11911	11	8'539	21'829	11985	12	19'242	25'471	12048	11	16'599	5'321
11764	9	20'111	6'605	11838	9	20'978	16'713	11912	9	10'526	21'574	11986	12	20'534	25'404	12049	13	8'995	6'293
11765	9	20'114	6'690	11839	12	1'791	17'469	11913	9	10'862	21'689	11987	12	21'400	25'414	12050	12	0'447	7'536
11766	9	20'918	6'774	11840	7	2'035	17'836	11914	9	12'193	21'950	11988	11	22'220	25'919	12051	19	4'587	7'504
11767	14	1'808	7'729	11841	9	4'383	17'905	11915	14	14'425	21'833					12052	18	4'637	7'252
11768	10	16'616	7'824	11842	8	6'191	17'329	11916	9	14'631	21'435					12053	20	4'999	7'735
11769	8	20'572	7'637	11843	12	11'486	17'726	11917*	22	15'388	21'409					12054	9	6'042	8'099
11770	10	21'507	7'490	11844	8	16'625	17'694	11918	9	17'658	21'556					12055	8	15'009	8'321
11771	11	22'211	7'353	11845	9	18'792	17'537	11919	10	18'211	21'468					12056	9	15'312	8'604
11772	10	2'352	8'331	11846	8	19'859	17'824	11920	9	18'583	21'327					12057	12	19'582	8'229
11773	8	5'151	8'310	11847	9	20'885	17'975	11921	8	19'271	21'836					12058	10	22'605	8'490
11774	8	10'921	8'965	11848	13	22'867	17'177	11922	9	20'614	21'892					12059	12	3'687	9'609
11775	13	10'978	8'732	11849	10	23'172	17'197	11923	14	22'763	21'763					12060	13	16'620	9'573
11776	7	11'951	8'085	11850	8	23'269	17'578	11924	11	24'571	21'250					12061	8	22'499	9'350
11777*	24	13'027	8'898	11851	8	23'486	17'356	11925	14	25'258	21'720					12062	9	1'949	10'684
11778	10	20'420	8'486	11852*	30	24'925	17'610	11926	10	25'497	21'742					12063	10	12'217	10'847
11779	12	21'428	8'170	11853*	83	24'949	17'669	11927	18	0'214	22'637					12064	8	12'624	10'696
11780	10	9'531	9'847	11854	14	25'990	17'597	11928	13	1'924	22'309					12065	10	14'475	10'303
11781	9	13'151	9'726	11855	7	5'554	18'655	11929	12	3'023	22'260					12066*	32	16'842	10'951
11782	8	16'515	9'361	11856	10	6'213	18'042	11930	11	5'481	22'658					12067	12	19'077	10'344
11783	8	19'841	9'708	11857	8	7'365	18'984	11931	10	7'346	22'955					12068	14	25'959	10'153
11784	10	20'442	9'953	11858	9	9'368	18'828	11932	9	10'140	22'837					12069	25	4'705	11'873
11785	8	20'799	9'794	11859	21	9'565	18'670	11933	8	11'293	22'411					12070	9	7'783	11'457
11786	8	25'418	9'476	11860	7	9'849	18'099	11934	11	12'153	22'615					12071	9	7'901	11'697
11787	20	1'396	10'402	11861	8	9'923	18'041	11935	9	13'595	22'067					12072	10	20'702	11'624
11788	9	1'432	10'621	11862	12	10'587	18'117	11936	10	14'293	22'153					12073	10	21'123	11'632
11789	11	2'768	10'548	11863	6	11'369	18'204	11937	8	15'606	22'249					12074	14	24'250	11'919
11790	20	3'777	10'904	11864	6	12'368	18'915	11938	9	17'320	22'322					12075	17	3'951	12'473
11791	9	9'517	10'584	11865	10	19'140	18'092	11939	9	19'840	22'564					12076	10	4'408	12'455
11792*	32	13'824	10'015	11866	8	20'015	18'889	11940	12	20'839	22'500					12077	9	8'222	12'942
11793	9	13'942	10'674	11867	11	24'994	18'457	11941	9	22'797	22'953					12078*	25	9'070	12'130
11794	9	23'663	10'522	11868	11	0'683	19'273	11942	12	3'712	23'833					12079	10	11'752	12'006
11795	8	4'185	11'069	11869	13	1'553	19'266	11943	8	11'774	23'416					12080	12	18'296	12'157
11796	10	17'790	11'839	11870	10	2'371	19'613	11944	12	12'137	23'985					12081	10	18'446	12'897
11797	8	19'378	11'814	11871	10	3'229	19'913	11945	10	13'145	23'113					12082	9	18'548	12'903
11798	8	0'570	12'400	11872	9	3'755	19'037	11946	15	13'668	23'913					12083	20	24'560	12'961
11799	11	1'264	12'244	11873	8	4'115	19'723	11947*	22	14'579	23'763					12084	13	5'199	13'362
11800	12	2'159	12'022	11874	9	4'275	19'511	11948	12	14'947	23'684					12085	22	5'213	13'313
11801	11	2'413	12'673	11875	10	5'311	19'436	11949	8	15'695	23'497					12086	13	5'483	13'585
11802	9	3'099	12'255	11876	8	5'652	19'270	11950	15	1'837	24'136					12087	9	9'794	13'050
11803	7	3'274	12'068	11877	9	7'632	19'252	11951	10	8'486	24'724					12088	9	19'368	13'654
11804	11	3'294	12'138	11878	7	7'897	19'960	11952	10	9'095	24'664					12089	10	19'719	13'625
11805	8	8'048	12'179	11879	9	8'189	19'686	11953	11	9'230	24'645					12090	10	21'159	13'124
11806	8	8'771	12'301	11880	8	8'204	19'710	11954	8	9'321	24'188					12091	22	23'564	13'332
11807	10	9'578	12'914	11881	8	10'339	19'274	11955	11	10'646	24'773					12092	10	24'759	13'950
11808	9	10'802	12'559	11882	20	12'209	19'043	11956	9	11'213	24'265					12093	11	2'750	14'364
11809	9	14'889	12'837	11883	10	12'702	19'741	11957	12	11'720	24'770					12094	15	3'416	14'478
11810	8	16'162	12'321	11884	8	13'880	19'795	11958	10	12'118	24'420					12095	22		

12102	11	22°602	14°728	12176	11	21°929	19°197	12303*	53	11°113	1°753	12377	14	2°767	13°075
12103	8	22°828	14°178	12177	19	23°220	19°142	12304	8	12°229	1°226	12378	7	4°927	13°453
12104	10	24°713	14°883	12178	11	23°688	19°323	12305*	37	14°817	1°354	12379	5	6°935	13°556
12105	9	24°813	14°697	12179	18	8°037	20°500	12306	5	16°138	1°548	12380	10	7°681	13°941
12106	10	0°028	15°533	12180	10	8°483	20°097	12307	5	16°207	1°277	12381	16	19°655	13°890
12107	8	4°058	15°495	12181	19	11°855	20°960	12308	5	16°520	1°425	12382	20	21°757	13°453
12108	12	5°821	15°566	12182	14	20°707	20°454	12309	20	20°236	1°052	12383	12	25°769	13°280
12109	14	9°282	15°104	12183	19	1°219	21°937	12310	5	24°349	1°126	12384	6	0°836	14°871
12110	18	16°689	15°258	12184	10	3°020	21°396	12311	5	15°272	2°198	12385	5	1°054	14°315
12111*	22	17°396	15°182	12185	16	3°713	21°853	12312	7	15°443	2°583	12386	6	3°048	14°806
12112	12	18°012	15°516	12186	12	3°949	21°876	12313	7	22°695	2°989	12387	11	4°705	14°703
12113	10	21°447	15°563	12187	10	4°954	21°457	12314	9	14°585	3°355	12388	6	6°056	14°156
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12115	10	22°052	15°663	12189	10	14°729	21°781	12316	8	19°986	3°671	12390	5	10°112	14°937
12116	19	22°172	15°117	12190	9	15°766	21°996	12317	6	23°092	3°857	12391	11	14°301	14°117
12117	17	22°691	15°893	12191	11	22°308	21°976	12318	10	23°185	3°503	12392	10	15°016	14°729
12118	12	22°822	15°553	12192	10	25°265	21°039	12319*	32	12°150	4°442	12393	5	0°037	15°847
12119	12	22°944	15°278	12193	10	3°482	22°783	12320	6	12°626	4°774	12394	5	0°298	15°813
12120	11	23°430	15°741	12194	12	4°569	22°122	12321	7	16°905	4°794	12395	7	0°408	15°264
12121	17	23°735	15°659	12195	9	4°623	22°284	12322	6	20°201	4°856	12396	9	1°065	15°687
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12123	10	0°334	16°183	12197	16	7°273	22°286	12324	6	10°255	5°145	12398	5	1°676	15°874
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12126	10	12°864	16°388	12200	10	14°935	22°497	12327	5	15°585	5°963	12401	7	4°907	15°869
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12128	10	15°164	16°664	12202	11	16°869	22°239	12329	6	22°205	5°779	12403	10	9°860	15°006
12129	10	18°022	16°265	12203	12	19°417	22°539	12330*	36	23°880	5°137	12404	7	13°705	15°673
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12131	9	20°042	16°454	12205	9	20°341	22°376	12332	7	15°568	6°732	12406	8	19°159	15°845
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12135	24	23°819	16°760	12209	12	5°398	23°835	12336	6	16°974	7°663	12410	10	0°936	16°033
12136	19	1°251	17°347	12210	9	15°451	23°461	12337	24	25°942	7°638	12411	6	1°825	16°885
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12139	10	1°877	17°518	12213	11	0°935	24°185	12340	11	16°195	8°276	12414	5	2°903	16°466
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12141*	81	3°319	17°751	12215	22	4°446	24°653	12342	6	4°400	9°983	12416	6	6°551	16°166
12142*	42	3°345	17°811	12216	10	14°283	24°214	12343	8	7°304	9°536	12417	5	2°027	17°146
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12145	10	5°033	17°528	12219	16	19°689	24°882	12346	5	14°772	9°793	12420	5	6°918	17°448
12146	9	5°198	17°423	12220	13	21°037	24°575	12347	5	15°574	9°505	12421	6	8°853	17°175
12147	10	9°973	17°145	12221	17	21°422	24°203	12348	6	15°787	9°815	12422	6	15°059	17°842
12148	22	12°307	17°056	12222	14	21°947	24°068	12349	18	15°886	9°766	12423	7	19°735	17°882
12149	9	15°742	17°546	12223	9	4°238	25°125	12350	5	17°036	9°236	12424	6	4°043	18°146
12150	10	18°375	17°507	12224	21	4°334	25°064	12351	6	19°675	9°484	12425	5	7°108	18°498
12151	11	19°079	17°477	12225	10	4°823	25°582	12352	7	21°373	9°115	12426	6	0°218	19°347
12152	8	19°207	17°326	12226	13	11°224	25°725	12353	5	21°526	9°058	12427	12	1°511	19°274
12153	13	21°259	17°150					12354	7	25°107	9°264	12428	7	1°984	19°449
12154	11	21°695	17°815					12355	8	4°132	10°252	12429	6	18°728	19°037
12155	10	23°759	17°022					12356*	38	5°115	10°772	12430*	46	21°669	19°200
12156	14	3°402	18°597					12357	7	8°232	10°964	12431	6	1°936	20°023
12157	9	12°213	18°349					12358	8	9°336	10°442	12432	5	7°346	20°219
12158	12	14°234	18°728					12359	6	9°935	10°638	12433	8	15°902	20°093
12159	13	15°389	18°682					12360	22	13°324	10°154	12434	5	22°735	20°364
12160	10	17°048	18°636					12361	7	13°663	10°050	12435	6	3°585	21°144
12161	9	17°283	18°784					12362	19	14°299	10°612	12436*	28	6°595	21°019
12162	11	17°441	18°392					12363	8	19°362	10°740	12437	8	0°638	22°125
12163	22	17°939	18°840					12364	5	21°593	10°532	12438	10	4°005	22°248
12164	12	21°377	18°453					12365	5	1°866	11°363	12439	11	23°914	22°614
12165*	22	21°449	18°658					12366	5	8°235	11°695	12440	5	6°257	23°872
12166	10	25°767	18°044					12367*	28	8°865	11°859	12441	7	0°303	24°227
12167	10	3°554	19°546					12368	5	10°077	11°452	12442	7	0°874	24°144
12168	11	4°679	19°701					12369	6	15°193	11°184	12443	5	16°456	24°706
12169	8	5°338	19°622					12370	17	18°025	11°475				
12170*	43	10°327	19°183					12371	11	2°444	12°036				
12171*	20	10°438	19°961					12372	5	3°914	12°807				
12172	9	17°271	19°542					12373*	63	8°053	12°620				
12173	11	20°078	19°730					12374	5	13°113	12°115				
12174	10	20°517	19°840					12375	6	23°956	12°646				
12175	10	21°332	19°872					12376	13	1°777	13°460				

R. A. 4^h 36^m

Plate 1283; 1899 Jan. 26.

Provisional Constants.

A	B	C
-00065	+00851	+2078
D	E	F
-00853	-00023	+0454

Mag. = 16.7 - 1.25 \sqrt{d}

No.	d	x	y
12501	21	11°540	0°665
12502	6	13°353	0°799
12503	5	16°385	0°454
12504	6	19°612	0°896
12505	6	20°613	0°035
12506	5	22°450	0°585
12507	10	25°379	0°692
12508	5	2°985	1°274
12509	7	13°735	1°175
12510	11	16°804	1°084
12511	12	19°146	1°595
12512	6	19°549	1°804
12513	5	24°622	1°085
12514	8	4°805	2°196
12515	6	11°652	2°491
12516	16	13°704	2°319
12517	6	14°276	2°482
12518	5	17°895	2°215
12519	5		

12557	5	20°124	7°658	12631	10	21°036	24°195	12746	7	22°283	5°067	12820	10	16°764	14°378
12558	7	20°523	7°735	12632*	38	15°943	25°546	12747	5	23°363	5°254	12821	9	20°196	14°544
12559	5	23°478	7°215	12633	6	19°022	25°230	12748	5	23°836	5°467	12822	17	21°412	14°170
12560	5	3°463	8°664	12634	7	20°783	25°238	12749	5	24°757	5°621	12823*	22	24°218	14°173
12561	29	12°920	8°495	12635	8	24°724	25°365	12750	10	25°724	5°400	12824*	25	24°567	14°138
12562	6	13°160	8°380	12636	6	25°402	25°474	12751	7	8°165	6°084	12825	11	24°761	14°696
12563	12	14°535	8°999					12752	8	9°012	6°011	12826	5	17°330	15°520
12564	7	0°145	9°313					12753	5	16°817	6°824	12827*	62	22°174	15°300
12565	6	0°290	9°255					12754	5	16°868	6°758	12828	6	23°049	15°053
12566	8	3°884	9°395					12755	10	17°175	6°781	12829	10	24°888	15°451
12567	10	7°125	10°356					12756	5	19°495	6°807	12830	14	0°951	16°743
12568	31	8°560	11°253					12757	6	19°906	6°479	12831	5	10°841	16°534
12569	6	20°675	11°454					12758	8	22°708	6°524	12832	14	18°131	16°112
12570	6	2°786	12°797					12759	10	22°881	6°726	12833	12	20°904	16°764
12571	6	4°865	12°444					12760	9	24°621	6°155	12834	24	20°946	16°777
12572	20	0°604	13°641					12761	6	25°921	6°056	12835	5	25°614	16°500
12573	14	4°615	13°399					12762	7	5°535	7°821	12836	7	1°057	17°926
12574*	83	5°941	13°251					12763*	42	8°583	7°765	12837	6	2°588	17°354
12575	5	18°148	14°698					12764	6	20°367	7°546	12838	5	23°092	17°209
12576	7	18°534	14°681					12765	19	21°338	7°464	12839	5	4°248	18°230
12577	8	21°496	14°176					12766	5	22°407	7°514	12840	18	15°594	18°319
12578	9	24°715	14°715					12767	12	23°814	7°127	12841	7	23°267	18°794
12579	11	1°579	15°660					12768	12	25°393	7°510	12842	5	24°594	18°866
12580	7	19°163	15°442					12769	17	9°098	8°925	12843	26	0°816	19°458
12581*	34	19°566	16°987					12770*	26	10°260	8°490	12844	12	3°305	19°834
12582	5	20°202	16°826					12771	5	10°339	8°385	12845	6	5°272	19°579
12583	16	23°242	16°551					12772	11	11°974	8°705	12846	5	21°136	19°887
12584	15	7°005	17°466					12773	6	12°496	8°204	12847*	27	25°116	19°674
12585	14	9°875	17°466					12774	5	18°922	8°948	12848*	37	7°297	20°526
12586	5	15°040	17°880					12775	7	19°398	8°988	12849	13	20°088	20°154
12587	7	20°279	17°498					12776	7	19°828	8°125	12850	6	24°144	20°730
12588	5	21°487	17°900					12777	6	22°189	8°425	12851	5	0°924	21°596
12589	5	22°414	17°496					12778	10	22°234	8°306	12852	8	3°285	21°576
12590	7	23°335	17°739					12779	27	23°312	8°849	12853	5	4°819	21°333
12591	6	24°875	17°188					12780	5	24°134	8°926	12854	9	16°316	21°784
12592	12	18°432	18°253					12781	5	9°720	9°357	12855	6	16°410	21°196
12593	7	18°674	18°313					12782	6	14°222	9°824	12856	9	14°124	22°663
12594	5	18°704	18°761					12783	9	18°384	9°313	12857*	35	16°750	22°625
12595	12	18°834	18°747					12784	5	18°786	9°185	12858*	6	20°367	22°807
12596	5	19°054	18°630					12785*	42	21°415	9°727	12859	12	23°294	22°272
12597*	47	0°618	19°391					12786	6	22°409	9°654	12860	7	0°382	23°291
12598	11	20°089	19°014					12787	18	22°632	9°036	12861*	55	2°144	23°291
12599	28	23°069	19°266					12788	5	25°275	9°494	12862	10	3°732	23°287
12600	14	25°556	19°674					12789	8	25°353	9°494	12863	5	6°795	23°728
12601	6	1°702	20°529					12790	7	25°488	9°023	12864	8	11°465	23°195
12602	17	13°926	20°980					12791	6	8°369	10°287	12865	6	13°393	23°494
12603	14	14°018	20°857					12792	6	15°755	10°865	12866	12	13°546	23°413
12604	5	14°531	20°197					12793	10	17°057	10°568	12867	8	23°085	23°839
12605	5	15°383	20°771					12794	8	18°045	10°256	12868*	25	4°605	24°995
12606	6	20°613	20°174					12795	12	18°816	10°419	12869*	14	6°142	24°669
12607	14	11°442	21°577					12796	30	21°231	10°716	12870	13	8°108	24°176
12608	5	13°752	21°184					12797	7	21°375	10°504	12871	10	14°425	24°096
12609	30	20°245	21°885					12798	6	21°799	10°394	12872	10	17°625	24°129
12610	6	23°148	21°404					12799	9	22°377	10°615	12873	5	21°088	24°636
12611	5	23°966	21°645					12800	5	22°549	10°074	12874	5	21°291	24°666
12612	8	25°512	21°419					12801	6	22°714	10°517	12875	6	2°550	25°537
12613	12	2°922	22°766					12802	5	24°286	10°080	12876	8	8°387	25°429
12614*	46	10°686	22°532					12803	7	25°654	10°230	12877	9	12°775	25°052
12615	5	20°482	22°946					12804	9	17°265	11°155	12878	5	15°401	25°431
12616	6	24°226	22°552					12805	5	19°359	11°773	12879	6	15°991	25°274
12617	6	15°023	23°182					12806	6	4°674	12°017	12880	7	20°441	25°296
12618	10	15°770	23°427					12807*	17	18°998	12°397				
12619	8	19°302	23°974					12808	6	21°688	12°280				
12620	8	19°537	23°394					12809	6	23°956	12°223				
12621	5	21°317	23°519					12810	6	25°042	12°827				
12622	9	21°713	23°195					12811	5	25°574	12°859				
12623	8	22°586	23°093					12812	14	7°626	13°186				
12624	5	23°161	23°631					12813	7	18°378	13°957				
12625*	57	24°346	23°116					12814	6	18°495	13°759				
12626	9	25°936	23°135					12815	5	19°666	13°008				
12627	7	16°325	24°278					12816	12	21°086	13°135				
12628	6	18°028	24°255					12817	6	25°283	13°941				
12629	6	19°070	24°702					12818	8	2°398	14°886				
12630	8	19°800	24°867					12819*	28	13°032	14°975				

R. A. 4^h 52^m

Plate 2709; 1909 Feb. 13.

Provisional Constants.

A	B	C
-00035	+00301	+1787

D	E	F
-00316	-00007	-2308

Mag. = 16.8 - 1.25 \sqrt{d} R. A. 4^h 44^m

Plate 1284; 1899 Jan. 26.

Provisional Constants.

A	B	C
-00042	+00742	-3783

D	E	F
-00752	-00014	+0278

Mag. = 16.3 - 1.25 \sqrt{d}

No.	d	x	y
12701	12	2°875	0°855
12702	6	5°159	0°713
12703	5	10°262	0°801
12704	30	15°207	0°330
12705	8	22°125	0°484
12706	6	23°394	0°667
12707	16	25°441	0°091
12708	5	2°117	1°256
12709	6	15°082	1°107
12710	5	16°413	1°975
12711	6	16°738	1°556
12712	8	21°032	1°956
12713*	53	21°646	1°026
12714	6	23°484	1°819
12715	11	24°133	1°377
12716	5	24°716	1°701
12717	8	0°490	2°624
12718	6	5°824	2°469
12719	6	6°626	2°557
12720	18	15°102	2°196
12721*	39	15°845	2°353
12722	8	16°112	2°535
12723	10	17°423	2°192
12724	12	19°704	2°123
12725	6	20°991	2°825
12726	6	22°606	2°261
12727	28	5°500	3°103
12728	6	8°792	3°837
12729	15	17°690	3°986
12730	7	24°776	3°252
12731	5	25°817	3°139
12732	10	0°311	4°328
12733*	24	9°370	4°222
12734	6	12°496	4°592
12735	12	14°132	4°453
12736	7	14°448	4°02

12957	18	11'487	3'494	13031	18	11'474	7'849	13105	8	8'722	12'537	13179	10	10'495	21'255	13329	9	4'550	1'978
12958	10	11'853	3'076	13032	17	15'877	7'479	13106	12	10'055	12'004	13180	10	12'489	21'933	13330	9	4'585	1'052
12959	14	12'394	3'345	13033	15	16'154	7'480	13107	8	12'426	12'037	13181	14	15'505	21'386	13331	10	4'721	1'102
12960	12	13'892	3'133	13034	12	16'310	7'882	13108*	43	19'089	12'548	13182	9	18'592	21'463	13332	11	4'871	1'889
12961	8	18'733	3'561	13035	11	16'487	7'898	13109	12	20'554	12'919	13183	18	2'146	22'186	13333	12	5'685	1'399
12962	7	19'372	3'415	13036	9	17'004	7'375	13110	17	21'940	12'328	13184*	54	17'189	22'145	13334	13	6'991	1'881
12963	6	20'447	3'520	13037	6	18'321	7'312	13111	7	23'814	12'307	13185	9	17'499	22'125	13335	8	7'097	1'341
12964	21	22'818	3'077	13038	15	18'875	7'964	13112	13	4'046	13'835	13186	28	17'987	22'063	13336	12	7'276	1'410
12965	13	23'359	3'961	13039	5	19'832	7'073	13113	18	7'789	13'904	13187*	39	22'560	22'577	13337	22	7'770	1'417
12966	24	23'755	3'477	13040	20	22'269	7'701	13114	13	8'587	13'463	13188	7	1'952	23'756	13338	10	7'887	1'967
12967	9	25'109	3'629	13041	5	23'717	7'167	13115	17	11'814	13'586	13189	7	8'409	23'209	13339	11	8'174	1'844
12968	13	3'626	4'682	13042	13	24'688	7'420	13116	24	12'852	13'319	13190*	44	13'622	23'965	13340	10	9'837	1'616
12969	20	5'702	4'463	13043	8	24'757	7'339	13117	11	13'728	13'076	13191	12	14'424	23'074	13341	9	10'791	1'061
12970	9	5'996	4'940	13044	7	25'254	7'117	13118	6	17'596	13'574	13192	26	6'304	24'762	13342	8	11'617	1'992
12971	16	7'830	4'932	13045	11	0'937	8'229	13119	8	20'645	13'879	13193	16	7'567	24'302	13343	9	13'658	1'757
12972	12	8'991	4'809	13046	23	1'348	8'960	13120	13	23'966	13'887	13194	21	12'976	24'664	13344	8	13'790	1'278
12973	15	10'568	4'661	13047	28	2'025	8'764	13121	21	0'178	14'105	13195	20	13'024	24'703	13345	14	16'200	1'714
12974*	49	15'337	4'827	13048	11	4'206	8'916	13122*	24	2'987	14'078	13196	11	21'235	24'227	13346	10	18'724	1'861
12975	20	18'357	4'447	13049	5	4'696	8'343	13123*	28	3'336	14'040	13197	33	5'053	25'437	13347	9	19'585	1'992
12976	8	18'415	4'114	13050	11	11'029	8'845	13124	19	3'534	14'598	13198	9	12'916	25'955	13348	10	20'096	1'178
12977	21	19'058	4'852	13051	25	11'622	8'273	13125	6	5'354	14'103	13199	20	12'932	25'049	13349	15	20'149	1'085
12978	13	20'776	4'161	13052	12	18'138	8'784	13126*	42	5'476	14'153	13200	51	17'216	25'914	13350	10	22'428	1'179
12979	12	21'685	4'734	13053	15	19'490	8'481	13127	9	6'221	14'652	13201	24	22'641	25'632	13351	12	22'504	1'528
12980	20	22'821	4'830	13054	17	21'882	8'487	13128*	30	8'120	14'943					13352	12	22'518	1'479
12981	6	23'888	4'890	13055	44	0'138	9'665	13129	15	8'823	14'189					13353	20	23'245	1'196
12982*	39	24'968	4'882	13056	13	4'072	9'386	13130	11	13'605	14'014					13354	10	23'347	1'462
12983	17	4'404	5'288	13057	21	6'297	9'182	13131	13	15'236	14'160					13355*	28	24'334	1'351
12984	14	5'592	5'933	13058	29	6'955	9'117	13132	11	16'789	14'370					13356	11	1'930	2'254
12985	6	5'693	5'941	13059*	33	8'272	9'060	13133*	19	17'061	14'007					13357	13	2'886	2'768
12986	22	6'508	5'823	13060	7	8'327	9'615	13134	9	19'362	14'419					13358	12	3'131	2'967
12987*	68	8'192	5'944	13061	25	12'446	9'518	13135*	60	0'958	15'225					13359	13	4'473	2'032
12988	19	9'035	5'787	13062	24	12'494	9'707	13136	17	3'669	15'350					13360	13	4'890	2'478
12989	7	9'292	5'481	13063	16	12'513	9'871	13137	6	8'044	15'156					13361	11	5'692	2'530
12990	12	9'571	5'229	13064	10	13'047	9'873	13138	18	9'096	15'768					13362	9	6'429	2'287
12991	16	14'969	5'899	13065	9	14'620	9'966	13139	12	11'328	15'887					13363	14	7'681	2'338
12992	9	15'467	5'308	13066	24	14'949	9'472	13140	8	4'407	16'389					13364	8	8'754	2'994
12993	11	16'408	5'682	13067	21	16'366	9'630	13141	11	5'864	16'729					13365	9	10'483	2'815
12994	8	17'882	5'751	13068	16	16'728	9'394	13142	15	6'203	16'691					13366	9	10'670	2'616
12995	7	17'904	5'743	13069	6	17'831	9'633	13143	21	13'117	16'988					13367	9	10'886	2'930
12996	10	22'653	5'076	13070	14	21'701	9'542	13144	6	14'591	16'211					13368*	22	11'876	2'536
12997	20	24'786	5'377	13071	13	23'117	9'467	13145	22	17'516	16'870					13369	9	15'780	2'741
12998	11	24'968	5'021	13072	21	24'744	9'350	13146	6	20'553	16'327					13370*	68	17'751	2'530
12999	7	1'395	6'439	13073	11	1'109	10'538	13147	11	24'044	16'600					13371	9	20'203	2'745
13000	11	1'571	6'643	13074	5	1'443	10'437	13148	7	7'323	17'793					13372	12	21'609	2'481
13001	13	3'306	6'056	13075	12	4'379	10'121	13149	9	7'347	17'520					13373	12	22'354	2'889
13002	11	7'434	6'741	13076	7	5'167	10'343	13150	9	13'518	17'838					13374	11	23'554	2'998
13003	10	7'494	6'228	13077*	31	10'589	10'284	13151	7	18'975	17'165					13375	12	23'575	2'045
13004	15	10'343	6'343	13078	16	13'253	10'383	13152	5	19'704	17'136					13376	11	24'343	2'794
13005	7	11'444	6'479	13079	7	13'594	10'554	13153	20	21'906	17'254					13377	13	0'934	3'875
13006	5	12'208	6'721	13080	5	13'671	10'799	13154	5	23'970	17'438					13378	8	2'288	3'999
13007	7	12'496	6'890	13081	18	14'086	10'640	13155	9	24'394	17'536					13379*	35	3'100	3'158
13008	8	12'764	6'722	13082	8	15'545	10'843	13156	10	2'080	18'709					13380	11	4'664	3'612
13009	9	14'403	6'859	13083*	26	20'418	10'866	13157	8	6'093	18'787					13381	10	4'772	3'381
13010	18	14'775	6'046	13084	7	21'237	10'144	13158	19	7'024	18'635					13382	15	5'372	3'227
13011	8	14'994	6'369	13085	20	21'952	10'217	13159	7	8'244	18'494					13383	21	7'121	3'033
13012	9	18'730	6'369	13086	5	23'720	10'330	13160	8	9'478	18'348					13384	10	9'727	3'942
13013	7	20'033	6'863	13087	12	24'056	10'322	13161*	32	13'023	18'319					13385	11	10'071	3'459
13014	6	21'783	6'697	13088	5	6'886	11'912	13162	7	14'245	18'263					13386	9	13'364	3'337
13015*	44	22'778	6'678	13089	16	9'175	11'633	13163	17	15'073	18'811					13387	10	14'864	3'343
13016	7	23'704	6'600	13090	5	12'609	11'128	13164	6	17'614	18'027					13388	8	16'150	3'579
13017	26	25'086	6'281	13091	10	12'984	11'932	13165	7	20'183	18'666					13389	9	17'178	3'922
13018	19	25'553	6'082	13092	21	13'011	11'582	13166	10	21'834	18'037					13390	10	18'276	3'620
13019	22	25'684	6'675	13093*	90	13'309	11'479	13167	17	22'957	18'068					13391	11	18'740	3'175
13020	26	0'035	7'398	13094	5	13'896	11'611	13168*	33	3'940	19'572					13392	12	20'264	3'571
13021	21	2'509	7'037	13095	15	15'531	11'932	13169	12	9'179	19'576					13393	11	20'295	3'499
13022	20	4'093	7'403	13096	12	18'076	11'472	13170	26	12'231	19'482					13394	11	20'393	3'623
13023	6	4'637	7'893	13097	13	19'494	11'774	13171	5	19'691	19'685					13395	14	21'730	3'334
13024	10	5'928	7'694	13098	16	20'337	11'016	13172	10	25'938	19'547					13396	11	21'852	3'849
13025	12	7'219	7'526	1309															

13403	12	8°706	4°120	13477	9	15°856	7°943	13551	9	16°384	11°717	13625	15	23°709	19°343
13404	8	9°091	4°906	13478	9	18°406	7°874	13552	11	19°019	11°675	13626*	30	3°421	20°702
13405	14	10°805	4°830	13479	8	21°081	7°211	13553	22	19°498	11°503	13627*	30	5°027	20°589
13406	9	12°197	4°134	13480	11	25°652	7°393	13554	8	20°845	11°108	13628	8	6°167	20°868
13407	12	12°698	4°123	13481	10	3°689	8°239	13555	12	20°984	11°488	13629	10	10°102	20°725
13408*	30	14°531	4°012	13482	11	3°816	8°564	13556	9	21°336	11°623	13630	9	10°764	20°911
13409	8	14°832	4°502	13483	10	5°107	8°235	13557	8	21°858	11°185	13631	14	12°759	20°956
13410	10	14°921	4°386	13484	9	6°418	8°893	13558	10	24°983	11°853	13632	9	16°851	20°492
13411	9	15°704	4°287	13485	7	7°121	8°619	13559	12	1°274	12°345	13633	11	18°721	20°547
13412	11	15°754	4°076	13486	8	8°638	8°086	13560	9	2°353	12°105	13634	13	20°585	20°079
13413	9	16°864	4°713	13487	12	9°571	8°208	13561	21	12°457	12°429	13635	12	21°792	20°687
13414	10	16°885	4°650	13488	20	10°434	8°503	13562	8	18°171	12°091	13636	12	21°955	20°580
13415	10	18°306	4°677	13489	8	11°139	8°275	13563	20	18°900	12°286	13637*	24	21°995	20°555
13416	9	18°534	4°679	13490	12	13°806	8°507	13564	10	20°094	12°396	13638	13	24°001	20°319
13417	8	19°535	4°512	13491	13	13°869	8°771	13565	20	20°268	12°388	13639	14	24°419	20°241
13418	10	20°457	4°492	13492	18	15°459	8°249	13566*	20	23°161	12°644	13640	9	6°222	21°844
13419*	26	25°294	4°243	13493	8	17°459	8°473	13567	12	23°819	12°253	13641*	11	8°625	21°174
13420	12	0°029	5°248	13494	9	17°502	8°712	13568	9	12°269	13°745	13642	11	13°309	21°793
13421	10	2°003	5°752	13495	12	17°799	8°899	13569	9	18°651	13°759	13643	10	17°789	21°850
13422*	27	2°170	5°251	13496	10	17°915	8°980	13570	8	19°347	13°700	13644	12	18°446	21°426
13423	11	2°178	5°396	13497	9	21°783	8°854	13571	10	20°847	13°878	13645	10	19°022	21°793
13424	8	4°465	5°720	13498	16	24°586	8°515	13572	9	20°940	13°131	13646*	12	22°084	21°124
13425*	22	4°818	5°106	13499	10	24°707	8°382	13573	10	24°053	13°178	13647	14	22°153	21°066
13426	10	5°713	5°389	13500	14	24°837	8°305	13574*	33	24°860	13°150	13648	12	22°728	21°223
13427	9	7°383	5°840	13501	11	25°415	8°990	13575	9	1°362	14°281	13649	8	23°124	21°544
13428	7	7°937	5°256	13502	10	0°419	9°879	13576	11	7°037	14°814	13650	16	25°209	21°856
13429	8	8°372	5°011	13503	12	2°045	9°726	13577	9	14°532	14°787	13651*	28	0°143	22°995
13430	7	13°764	5°898	13504	22	3°946	9°501	13578	8	15°906	14°954	13652	22	4°387	22°101
13431	9	14°504	5°256	13505	8	4°828	9°623	13579	10	18°469	14°846	13653	10	8°923	22°784
13432	8	18°592	5°534	13506	11	6°505	9°631	13580	11	20°801	14°842	13654	8	9°300	22°913
13433	10	18°645	5°621	13507	10	9°383	9°068	13581	10	21°956	14°050	13655	10	11°087	22°247
13434	7	19°139	5°970	13508	8	9°557	9°091	13582	11	22°874	14°832	13656	11	15°295	22°657
13435	8	19°406	5°334	13509	17	10°884	9°735	13583	9	8°899	15°797	13657	10	16°905	22°399
13436	9	20°012	5°516	13510	9	12°533	9°748	13584	8	11°850	15°641	13658*	20	18°889	22°574
13437	9	20°450	5°400	13511	7	14°102	9°929	13585	12	17°686	15°588	13659	13	23°802	22°406
13438	9	20°715	5°371	13512	9	14°983	9°645	13586	11	22°224	15°962	13660	27	25°509	22°926
13439	21	20°839	5°032	13513	7	15°430	9°075	13587	9	22°387	15°129	13661	11	25°648	22°744
13440	11	21°662	5°396	13514*	28	16°535	9°249	13588	7	22°455	15°355	13662	10	5°916	23°261
13441	9	22°974	5°920	13515	10	17°798	9°009	13589	8	23°132	15°961	13663	8	12°272	23°064
13442	10	23°752	5°240	13516	12	18°505	9°580	13590	9	1°499	16°993	13664	12	12°899	23°740
13443	8	0°359	6°673	13517*	20	19°990	9°990	13591	9	3°191	16°799	13665	9	13°826	23°570
13444	14	2°323	6°650	13518	8	20°651	9°335	13592	8	3°248	16°475	13666	10	14°640	23°899
13445	11	2°784	6°442	13519	12	21°562	9°632	13593	10	3°782	16°375	13667	10	15°134	23°670
13446	10	3°516	6°408	13520	8	23°585	9°334	13594	8	8°804	16°441	13668	8	15°206	23°400
13447	8	4°553	6°523	13521	9	23°922	9°694	13595	9	12°307	16°236	13669	10	16°589	23°263
13448	9	4°631	6°628	13522*	20	24°049	9°200	13596	8	16°199	16°270	13670	14	25°017	23°034
13449	10	4°787	6°575	13523	10	24°171	9°125	13597	9	17°524	16°176	13671	12	7°798	24°266
13450	8	7°752	6°100	13524	11	24°374	9°100	13598	12	20°410	16°595	13672	9	7°944	24°282
13451	12	8°534	6°067	13525*	27	25°121	9°842	13599	10	20°464	16°651	13673	8	10°061	24°723
13452	11	8°671	6°515	13526	10	25°416	9°776	13600	8	20°966	16°224	13674	10	11°914	24°779
13453	10	13°408	6°472	13527	11	25°723	9°010	13601	9	24°137	16°285	13675	12	13°248	24°066
13454*	20	13°908	6°740	13528	12	1°377	10°712	13602	11	1°441	17°832	13676	14	14°058	24°084
13455	8	13°934	6°963	13529	10	5°519	10°168	13603	9	13°652	17°599	13677*	19	14°084	24°530
13456	11	14°675	6°353	13530	11	6°630	10°414	13604	10	15°466	17°706	13678	12	18°064	24°577
13457	10	15°142	6°743	13531	9	7°333	10°948	13605	10	17°689	17°232	13679	12	19°141	24°435
13458	9	15°206	6°045	13532	20	15°320	10°231	13606	11	20°662	17°728	13680	11	20°813	24°373
13459	12	21°746	6°732	13533	8	16°273	10°258	13607	12	25°358	17°409	13681	8	11°496	25°737
13460	8	23°092	6°993	13534	9	18°485	10°065	13608	12	0°443	18°481	13682	9	13°088	25°256
13461	11	24°690	6°102	13535	14	18°591	10°173	13609	12	3°679	18°078	13683	10	14°959	25°263
13462*	35	0°021	7°101	13536	8	18°836	10°419	13610	9	4°918	18°145	13684	12	20°556	25°867
13463	8	1°949	7°797	13537	9	19°622	10°533	13611	8	9°535	18°577	13685	16	23°602	25°144
13464	10	2°014	7°714	13538	8	19°770	10°725	13612	12	9°758	18°159				
13465	9	2°411	7°571	13539	12	20°696	10°329	13613	8	9°790	18°917				
13466	12	2°508	7°483	13540	9	21°229	10°252	13614	12	16°599	18°442				
13467	13	2°929	7°032	13541	10	21°230	10°670	13615	14	18°339	18°918				
13468	10	3°256	7°429	13542	8	21°729	10°125	13616	12	24°282	18°180				
13469	10	5°547	7°768	13543	10	23°657	10°960	13617	14	24°605	18°949				
13470	9	5°704	7°444	13544	12	25°448	10°103	13618	8	3°455	19°898				
13471	8	7°508	7°428	13545	12	0°285	11°617	13619	9	7°502	19°641				
13472	9	10°167	7°916	13546	13	2°466	11°636	13620	8	9°723	19°464				
13473	8	13°285	7°671	13547	9	3°408	11°197	13621	8	12°257	19°197				
13474	10	13°711	7°220	13548	9	4°599	11°775	13622	9	16°827	19°455				
13475	14	14°086	7°798	13549*	36	6°136	11°050	13623	10	18°176	19°142				
13476	8	14°140	7°083	13550	10	6°578	11°448	13624	12	19°816	19°780				

R. A. 5^h 8^m

Plate 2795; 1909 Dec. 1.

Provisional Constants.

A	B	C
-00048	-00326	+3343

D	E	F
+00313	-00017	-1853

Mag. = 16.0 - 1.25 \sqrt{d}

No.	d	x	y
13701	39	2°444	0°768
13702	8	2°782	0°232
13703	4	3°143	0°462
13704	9	3°336	0°002
13705	34	6°359	0°975
13706	11	7°176	0°594
13707	10	7°573	0°645
13708	7	10°454	0°209
13709	12	12°736	0°466
13710	11	13°373	0°757

13757	4	9'393	2'817	13831	23	15'693	5'765	13905	9	20'048	7'377	13979	8	12'271	9'902	14053	10	11'758	11'654
13758	6	9'741	2'193	13832	14	15'704	5'043	13906	20	21'365	7'716	13980	5	13'310	9'491	14054	11	12'106	11'827
13759	5	11'538	2'390	13833	12	15'705	5'842	13907	4	21'489	7'065	13981	9	14'305	9'956	14055	14	12'893	11'883
13760	4	12'314	2'794	13834*	31	16'625	5'697	13908	4	22'018	7'254	13982	8	16'465	9'621	14056	5	13'086	11'562
13761	5	12'376	2'619	13835	11	17'351	5'886	13909	7	23'934	7'013	13983	10	17'256	9'424	14057	17	15'129	11'781
13762	14	12'629	2'947	13836	18	17'382	5'276	13910	27	24'835	7'524	13984*	30	18'035	9'592	14058	16	15'203	11'818
13763	18	14'891	2'764	13837	12	17'540	5'603	13911	4	25'192	7'712	13985	12	19'360	9'470	14059	13	15'609	11'392
13764	5	15'275	2'294	13838	4	19'215	5'485	13912	16	25'394	7'763	13986	6	19'883	9'998	14060*	30	16'367	11'053
13765	9	15'834	2'564	13839	12	20'673	5'941	13913	12	0'989	8'812	13987	6	24'017	9'172	14061	12	16'980	11'454
13766	4	16'602	2'895	13840	6	20'754	5'403	13914	22	3'793	8'469	13988	12	24'573	9'706	14062	11	18'400	11'395
13767	8	16'616	2'446	13841	7	21'633	5'778	13915	11	3'914	8'336	13989	11	24'707	9'420	14063	6	18'787	11'171
13768	5	18'575	2'390	13842	11	23'032	5'876	13916	20	4'043	8'259	13990	9	24'719	9'318	14064	12	20'439	11'389
13769	6	19'203	2'669	13843	18	0'946	6'688	13917	5	4'118	8'340	13991	10	25'119	9'050	14065	6	20'782	11'877
13770	9	19'832	2'385	13844	6	2'293	6'945	13918	5	4'169	8'915	13992	14	0'436	10'213	14066	10	20'916	11'035
13771	12	21'752	2'784	13845	8	3'549	6'712	13919	8	4'622	8'943	13993	6	0'440	10'626	14067	9	22'508	11'554
13772	4	22'344	2'291	13846	12	3'892	6'052	13920	10	4'932	8'964	13994	14	0'936	10'083	14068*	28	2'374	12'596
13773	15	25'217	2'195	13847	5	5'073	6'224	13921	11	6'235	8'900	13995	4	2'870	10'918	14069	11	3'029	12'205
13774	28	0'930	3'281	13848	15	5'225	6'746	13922	13	6'315	8'023	13996	4	3'089	10'396	14070	4	4'974	12'574
13775	23	1'048	3'804	13849	11	5'555	6'182	13923*	30	6'754	8'589	13997	5	3'240	10'042	14071	12	6'141	12'746
13776	36	1'183	3'083	13850	6	7'079	6'219	13924	19	7'158	8'448	13998	8	4'441	10'587	14072	10	6'185	12'094
13777	5	2'408	3'657	13851	4	7'398	6'473	13925	4	7'442	8'414	13999	13	4'656	10'055	14073	10	7'161	12'907
13778	6	3'727	3'529	13852	9	8'417	6'896	13926	4	8'492	8'554	14000	4	5'228	10'805	14074	13	8'310	12'823
13779	9	4'836	3'028	13853	5	8'763	6'316	13927	4	8'969	8'858	14001	9	6'155	10'734	14075	10	8'429	12'426
13780	19	5'053	3'926	13854	9	9'522	6'323	13928	4	9'138	8'865	14002	9	6'792	10'392	14076	8	9'304	12'183
13781	10	5'328	3'223	13855	18	9'642	6'599	13929	19	9'484	8'473	14003	4	7'458	10'139	14077	10	9'412	12'006
13782	9	5'567	3'821	13856	5	9'749	6'784	13930	8	10'381	8'962	14004	19	7'551	10'242	14078	8	9'741	12'501
13783	19	5'888	3'023	13857	4	11'283	6'880	13931	13	10'685	8'244	14005	8	7'817	10'201	14079*	22	9'746	12'976
13784	5	8'077	3'622	13858	5	12'217	6'296	13932	4	11'902	8'815	14006	4	7'860	10'135	14080	9	10'153	12'717
13785	9	8'389	3'736	13859	21	12'964	6'837	13933	4	12'372	8'377	14007	8	7'982	10'776	14081	15	10'644	12'086
13786	16	8'427	3'454	13860	5	13'347	6'265	13934	9	12'865	8'725	14008	11	8'268	10'970	14082	6	11'179	12'036
13787	9	10'179	3'993	13861	13	13'387	6'407	13935	11	15'511	8'064	14009	9	8'337	10'633	14083	9	12'917	12'655
13788	10	10'331	3'662	13862	4	13'855	6'860	13936	15	15'602	8'263	14010	12	9'892	10'954	14084	4	13'496	12'623
13789	13	10'473	3'566	13863	20	14'658	6'199	13937	5	16'183	8'129	14011	17	10'183	10'864	14085	27	13'517	12'931
13790	9	11'027	3'795	13864	8	15'593	6'036	13938	20	16'719	8'515	14012	11	10'462	10'447	14086	4	14'246	12'697
13791	6	14'741	3'794	13865	13	15'684	6'798	13939	4	17'879	8'375	14013	4	11'232	10'753	14087	11	16'038	12'142
13792	8	16'692	3'681	13866	5	16'879	6'211	13940	4	18'504	8'019	14014	9	11'341	10'539	14088	4	17'760	12'253
13793	4	20'884	3'206	13867	4	18'765	6'485	13941	5	18'691	8'249	14015	10	12'383	10'977	14089	9	20'622	12'546
13794	6	21'283	3'495	13868	4	18'921	6'699	13942	13	19'622	8'457	14016*	30	12'654	10'131	14090	20	20'741	12'588
13795	4	21'731	3'096	13869	12	19'602	6'067	13943	12	19'990	8'754	14017	20	12'659	10'888	14091	17	20'991	12'925
13796	19	24'201	3'047	13870	20	21'012	6'105	13944	7	21'359	8'057	14018	10	13'656	10'481	14092*	30	21'002	12'990
13797	38	0'040	4'993	13871	9	22'283	6'126	13945	22	21'983	8'486	14019	4	13'792	10'616	14093	20	23'241	12'927
13798*	32	4'493	4'194	13872	4	22'513	6'636	13946	4	22'551	8'458	14020	4	14'157	10'823	14094*	30	23'693	12'405
13799*	30	5'714	4'287	13873	5	22'538	6'524	13947	9	22'602	8'638	14021	12	14'166	10'986	14095	14	25'424	12'486
13800	27	5'781	4'745	13874	4	24'776	6'320	13948	11	22'631	8'674	14022	21	14'577	10'226	14096	13	25'486	12'050
13801	9	5'961	4'679	13875	5	25'499	6'731	13949	4	23'956	8'123	14023	13	17'076	10'714	14097	11	0'153	13'090
13802	7	8'991	4'006	13876	4	4'169	7'652	13950	11	24'032	8'740	14024	9	17'488	10'017	14098	4	2'642	13'417
13803	4	9'115	4'010	13877	11	4'858	7'345	13951	6	25'586	8'513	14025	8	19'475	10'165	14099	7	3'268	13'132
13804	18	9'512	4'626	13878	7	5'478	7'358	13952	17	0'769	9'590	14026	18	20'189	10'520	14100*	40	4'073	13'099
13805	13	10'345	4'129	13879	5	5'889	7'515	13953	10	2'792	9'287	14027	20	22'078	10'611	14101	9	6'102	13'134
13806*	42	10'457	4'175	13880	7	6'567	7'228	13954	9	3'130	9'646	14028	9	22'367	10'884	14102	4	6'202	13'714
13807	4	16'554	4'191	13881	5	6'676	7'494	13955*	25	3'258	9'155	14029	11	22'685	10'788	14103	9	6'393	13'197
13808	25	16'813	4'369	13882	7	7'411	7'775	13956	8	3'377	9'078	14030	10	24'516	10'787	14104	20	6'555	13'833
13809	4	19'536	4'683	13883	4	7'472	7'680	13957	11	3'582	9'055	14031	4	24'654	10'803	14105	5	6'949	13'702
13810	5	19'879	4'234	13884	18	7'474	7'749	13958	9	4'212	9'812	14032	9	25'351	10'305	14106	5	7'922	13'236
13811	5	21'393	4'377	13885	5	7'526	7'426	13959*	30	4'328	9'794	14033	7	25'793	10'708	14107	26	9'007	13'834
13812	12	21'448	4'593	13886	5	7'943	7'146	13960	11	4'623	9'729	14034	14	0'055	11'067	14108	4	9'132	13'843
13813	19	23'009	4'456	13887	6	8'642	7'007	13961	4	4'892	9'623	14035	24	0'196	11'448	14109	4	9'191	13'683
13814	8	0'863	5'352	13888	6	8'871	7'690	13962	4	5'055	9'546	14036	6	0'545	11'580	14110	7	10'195	13'579
13815	19	2'953	5'194	13889	10	8'899	7'874	13963	5	5'209	9'317	14037	9	2'107	11'135	14111	16	10'405	13'463
13816	8	4'334	5'199	13890	4	9'043	7'560	13964	17	5'467	9'049	14038	4	4'111	11'836	14112	10	11'839	13'226
13817	12	6'368	5'767	13891	14	10'452	7'817	13965	5	5'777	9'104	14039	10	4'196	11'807	14113*	25	11'996	13'088
13818	10	7'281	5'581	13892	17	11'567	7'530	13966	9	6'976	9'876	14040	9	6'047	11'896	14114	7	14'080	13'423
13819	8	7'515	5'983	13893	11	11'578	7'083	13967	4	7'295	9'640	14041	23	6'264	11'623	14115	8	14'463	13'456
13820	4	8'358	5'365	13894	14	12'412	7'232	13968	5	7'449	9'096	14042	20	7'990	11'53				

14127	11	22°557	13°220	14201	13	15°152	16°561	14275	16	21°601	18°434	14349	4	22°850	22°613	14432	16	3°257	2°032
14128	14	23°753	13°950	14202	5	16°076	16°639	14276	18	22°149	18°891	14350	4	5°133	23°927	14433	13	4°510	2°621
14129	18	24°553	13°258	14203	4	17°058	16°852	14277	8	22°478	18°049	14351	6	5°706	23°412	14434	6	4°574	2°116
14130	22	24°638	13°363	14204	11	17°187	16°058	14278	18	24°117	18°904	14352	19	6°049	23°583	14435	7	5°246	2°957
14131	20	0°017	14°802	14205	19	17°395	16°952	14279	4	24°583	18°543	14353	12	6°362	23°278	14436	11	9°603	2°946
14132	5	1°172	14°007	14206	4	17°686	16°344	14280	4	24°767	18°457	14354	5	10°733	23°017	14437	20	10°668	2°261
14133	4	1°278	14°794	14207	6	18°298	16°275	14281	10	25°983	18°153	14355	11	12°666	23°331	14438	10	11°742	2°928
14134	17	2°091	14°787	14208	4	18°681	16°433	14282	26	2°936	19°296	14356	10	17°735	23°113	14439	8	16°174	2°223
14135	4	5°610	14°565	14209	6	18°973	16°395	14283	5	8°644	19°984	14357*	43	18°192	23°006	14440	16	17°217	2°854
14136	12	6°863	14°666	14210*	24	19°189	16°358	14284	14	9°235	19°399	14358	9	0°044	24°333	14441	13	17°418	2°066
14137	5	8°349	14°562	14211	9	20°626	16°012	14285	19	11°910	19°371	14359	4	3°395	24°506	14442	9	18°182	2°287
14138	4	8°474	14°308	14212	4	20°629	16°645	14286	10	13°296	19°118	14360	28	9°639	24°178	14443	14	18°719	2°836
14139	5	9°134	14°739	14213	17	21°873	16°221	14287	6	14°785	19°627	14361	11	10°984	24°826	14444	8	19°090	2°866
14140	10	9°549	14°132	14214	5	21°988	16°796	14288	15	15°010	19°285	14362	15	12°335	24°006	14445	4	21°501	2°231
14141	10	9°967	14°196	14215	10	23°582	16°224	14289	10	16°213	19°053	14363*	32	21°946	24°577	14446	7	22°277	2°247
14142	11	10°095	14°015	14216	5	23°722	16°667	14290	10	16°241	19°792	14364	21	21°994	24°542	14447	11	5°202	3°992
14143	11	10°290	14°657	14217	4	23°797	16°312	14291	7	16°986	19°027	14365	25	2°841	25°094	14448	12	7°572	3°237
14144	5	10°467	14°619	14218	14	24°500	16°398	14292	18	19°453	19°430	14366	4	11°005	25°175	14449	15	9°576	3°074
14145	5	10°523	14°752	14219	14	4°582	17°359	14293	4	20°670	19°923	14367	14	12°007	25°016	14450	11	12°893	3°983
14146	6	10°544	14°397	14220	9	5°537	17°442	14294	5	21°344	19°842	14368	8	20°916	25°433	14451	12	14°181	3°127
14147*	30	11°981	14°664	14221	15	6°707	17°914	14295	5	22°267	19°535					14452	8	17°895	3°334
14148	11	12°489	14°849	14222	20	6°860	17°767	14296	4	23°716	19°753					14453	7	19°076	3°530
14149	5	12°500	14°214	14223	6	7°023	17°935	14297	10	23°803	19°075					14454	17	20°584	3°099
14150	20	12°684	14°808	14224	10	9°787	17°865	14298	11	24°596	19°038					14455	21	22°082	3°323
14151	10	12°739	14°123	14225	9	10°343	17°312	14299	4	25°525	19°322					14456	19	23°438	3°462
14152	12	13°593	14°421	14226	5	10°491	17°924	14300	4	25°752	19°877					14457	20	1°068	4°315
14153	16	16°125	14°726	14227	12	11°580	17°255	14301	13	1°020	20°645					14458	9	5°972	4°542
14154	12	16°617	14°145	14228	10	12°349	17°187	14302	17	1°181	20°538					14459	7	6°983	4°288
14155	13	17°629	14°682	14229	19	12°817	17°963	14303*	38	1°222	20°514					14460*	31	7°493	4°634
14156	4	17°793	14°831	14230	11	12°922	17°288	14304	13	3°224	20°272					14461	10	13°986	4°977
14157	8	20°769	14°740	14231	9	13°006	17°246	14305	20	3°648	20°195					14462	7	16°624	4°480
14158	9	20°937	14°727	14232	14	13°478	17°430	14306	6	6°973	20°588					14463	8	17°681	4°697
14159	6	25°413	14°718	14233	10	13°965	17°776	14307	27	7°814	20°619					14464	19	18°395	4°204
14160	20	1°443	15°922	14234	13	14°570	17°207	14308	20	8°563	20°188					14465	20	20°231	4°609
14161	10	1°604	15°086	14235	6	14°635	17°464	14309	6	11°782	20°570					14466	4	20°558	4°617
14162	8	1°670	15°311	14236	9	14°911	17°546	14310	9	13°806	20°024					14467	22	22°158	4°061
14163	4	2°143	15°775	14237	8	15°346	17°045	14311	7	14°254	20°445					14468	9	25°318	4°789
14164	8	2°350	15°918	14238	7	16°664	17°515	14312	5	15°224	20°537					14469	11	1°107	5°735
14165	4	4°214	15°063	14239	10	18°347	17°372	14313	4	16°353	20°871					14470	18	4°873	5°504
14166	10	4°993	15°946	14240	9	19°359	17°011	14314	11	16°398	20°417					14471	17	5°274	5°024
14167	4	6°059	15°645	14241	16	19°552	17°317	14315	4	18°074	20°807					14472	12	5°848	5°944
14168*	20	8°485	15°175	14242	4	20°105	17°801	14316	10	18°177	20°526					14473	11	6°489	5°263
14169	6	9°840	15°548	14243	6	20°279	17°405	14317	18	18°306	20°334					14474*	24	7°843	5°545
14170	4	10°218	15°776	14244	7	22°116	17°562	14318	12	20°377	20°695					14475	4	8°919	5°907
14171	4	11°534	15°162	14245	4	22°952	17°084	14319	4	22°439	20°644					14476	10	9°560	5°710
14172	12	12°573	15°864	14246	11	23°211	17°335	14320	10	22°541	20°366					14477	9	10°017	5°887
14173	22	12°614	15°302	14247	6	23°492	17°171	14321	4	23°845	20°979					14478	18	11°349	5°480
14174	4	13°873	15°073	14248	23	24°237	17°115	14322	5	23°960	20°490					14479	18	12°433	5°122
14175	6	14°979	15°958	14249	5	24°424	17°470	14323*	19	1°134	21°082					14480	17	17°684	5°160
14176	9	15°426	15°544	14250	18	24°676	17°694	14324	11	1°379	21°021					14481	13	17°923	5°263
14177	5	16°713	15°372	14251	12	3°507	18°133	14325	9	1°955	21°178					14482	16	23°246	5°719
14178	7	16°757	15°533	14252	4	3°564	18°768	14326	6	2°357	21°501					14483	10	24°260	5°053
14179	8	17°623	15°140	14253	14	3°831	18°900	14327	15	4°442	21°804					14484	15	24°505	5°889
14180	5	17°738	15°016	14254	7	4°706	18°249	14328	5	7°103	21°005					14485	7	25°380	5°023
14181	9	17°776	15°043	14255	19	5°676	18°767	14329	7	7°387	21°066					14486	8	2°019	6°864
14182*	30	18°247	15°819	14256	10	6°823	18°284	14330	22	8°294	21°882					14487	16	5°173	6°369
14183	10	19°919	15°857	14257	10	7°122	18°869	14331	10	12°575	21°215					14488	13	5°964	6°110
14184	8	21°315	15°574	14258	5	9°053	18°635	14332	4	13°769	21°914					14489	17	6°771	6°318
14185	10	21°848	15°617	14259	4	12°048	18°974	14333	5	15°439	21°846					14490	8	7°367	6°072
14186	10	24°484	15°865	14260	11	12°405	18°689	14334	20	19°617	21°499					14491	5	8°688	6°161
14187	5	0°183	16°183	14261	4	12°450	18°710	14335	6	20°908	21°948					14492	11	9°474	6°629
14188	5	2°860	16°902	14262	10	13°144	18°021	14336	5	22°830	21°847					14493	8	10°149	6°993
14189	9	3°357	16°240	14263	10	13°357	18°197	14337	13	3°036	22°364					14494	15	11°094	6°874
14190	6	4°438	16°165	14264	10	13°362	18°187	14338	5	3°594	22°007					14495	11	12°939	6°982
14191	10	6°611	16°094	14265	9	15°572	18°216	14339	18	4°252	22°986					14496	18	13°378	6°077
14192	16	7°137	16°835	14266	10	15°613	18°473	14340*	33	4°744	22°873					14497	7	13°624	6°772
14193	8	7°246	16°773	14267	9	15°746	18°172	14341	11	4°879	22°688					14498	14	18°026	6°289
14194	10	10°923	16°487	14268	13	16°124	18°062	14342	14	6°783	22°414					14499	17	18°165	6°466
14195	8	14°061	16°856																

14506	6	5'934	7'193	14580*	26	1'833	12'258	14654	11	6'504	16'544	14728	11	20'636	21'394	14819	22	23'872	2'830
14507*	22	5'990	7'301	14581*	17	3'564	12'324	14655	6	7'948	16'555	14729	14	23'697	21'704	14820	5	24'290	2'639
14508	12	14'047	7'465	14582	14	7'535	12'480	14656	8	8'354	16'376	14730	9	24'315	21'882	14821	16	24'955	2'045
14509	15	15'031	7'184	14583	7	7'757	12'497	14657	16	8'986	16'932	14731	5	1'087	22'472	14822	6	25'483	2'814
14510	12	18'233	7'295	14584	10	10'319	12'295	14658	4	11'143	16'161	14732	7	3'943	22'933	14823	13	0'282	3'106
14511	16	22'324	7'462	14585	12	11'240	12'526	14659	13	11'709	16'588	14733	13	6'511	22'082	14824	16	0'374	3'842
14512	11	22'656	7'430	14586	8	14'564	12'652	14660	5	18'840	16'713	14734	7	9'041	22'784	14825	14	1'642	3'217
14513	10	24'857	7'839	14587*	28	14'969	12'910	14661	8	21'947	16'430	14735	12	9'583	22'735	14826*	31	6'819	3'649
14514	11	24'928	7'387	14588	7	15'173	12'497	14662	4	22'976	16'637	14736	13	11'119	22'451	14827	16	7'582	3'444
14515	11	25'506	7'184	14589	5	16'578	12'226	14663	9	0'674	17'915	14737	11	14'198	22'998	14828	12	13'631	3'824
14516	27	0'083	8'355	14590	6	17'910	12'554	14664	10	1'396	17'193	14738	5	14'702	22'298	14829	21	15'085	3'724
14517	13	0'732	8'536	14591	8	19'699	12'763	14665	18	2'869	17'536	14739	7	19'131	22'569	14830	12	16'814	3'133
14518	16	2'136	8'590	14592	5	20'320	12'702	14666	12	4'178	17'984	14740	14	20'370	22'776	14831	17	17'965	3'408
14519	11	3'224	8'890	14593	12	23'973	12'017	14667	12	7'442	17'380	14741	7	5'812	23'125	14832	9	23'543	3'659
14520	19	4'701	8'311	14594	21	24'557	12'966	14668	9	10'049	17'407	14742	4	12'756	23'481	14833	7	7'090	4'819
14521	14	4'779	8'671	14595*	40	25'654	12'064	14669	12	10'577	17'999	14743	10	12'808	23'214	14834	15	12'333	4'781
14522	9	4'984	8'786	14596	11	0'703	13'085	14670	16	10'833	17'612	14744	20	19'234	23'190	14835	11	15'086	4'874
14523	7	5'300	8'859	14597	16	1'905	13'804	14671	13	11'370	17'122	14745*	33	0'201	24'450	14836	7	19'212	4'259
14524	12	8'190	8'808	14598	18	2'701	13'105	14672	5	13'234	17'079	14746	23	0'250	24'414	14837	6	20'942	4'640
14525	8	9'374	8'593	14599	21	2'787	13'206	14673	9	17'861	17'901	14747	23	7'344	24'369	14838	5	21'400	4'520
14526	15	9'482	8'068	14600	4	4'438	13'727	14674	17	18'142	17'953	14748	6	9'035	24'648	14839*	37	21'428	4'219
14527	7	9'493	8'094	14601	13	5'136	13'656	14675	4	22'238	17'640	14749	11	11'676	24'566	14840	23	24'351	4'837
14528	13	9'508	8'723	14602	11	6'152	13'591	14676	11	23'717	17'516	14750	9	15'991	24'809	14841	21	25'103	4'188
14529	13	9'657	8'652	14603*	22	6'551	13'789	14677	19	0'351	18'759	14751	6	3'968	25'034	14842	10	1'498	5'477
14530	7	10'116	8'806	14604*	24	6'596	13'743	14678	19	2'320	18'813	14752	14	9'737	25'799	14843	7	2'763	5'620
14531	8	10'282	8'761	14605*	38	8'155	13'612	14679	7	2'785	18'390	14753	7	10'014	25'276	14844	16	10'378	5'618
14532	4	14'929	8'620	14606	19	8'196	13'619	14680	12	2'801	18'886	14754	10	13'249	25'806	14845	13	21'793	5'694
14533	17	19'663	8'377	14607	13	11'074	13'032	14681	11	5'472	18'789	14755	18	13'298	25'858	14846	13	23'687	5'386
14534	11	20'274	8'015	14608	5	13'562	13'124	14682	15	5'779	18'891	14756	7	14'494	25'106	14847	9	5'470	6'814
14535	7	20'738	8'995	14609	6	14'157	13'705	14683	15	8'640	18'467	14757	13	15'032	25'245	14848	16	5'539	6'309
14536	14	2'684	9'552	14610	8	16'701	13'517	14684	14	9'092	18'392	14758	12	16'424	25'649	14849	8	12'494	6'811
14537	13	2'819	9'263	14611	6	17'195	13'994	14685	9	9'655	18'094	14759	7	19'349	25'320	14850	5	16'022	6'737
14538	6	6'051	9'017	14612	6	17'379	13'267	14686	10	10'927	18'543	14760	11	19'856	25'713	14851	5	16'095	6'856
14539	12	6'553	9'477	14613	9	17'981	13'117	14687	13	12'653	18'594					14852	12	18'013	6'255
14540	9	9'050	9'301	14614	11	17'993	13'411	14688	15	13'212	18'231					14853	13	20'407	6'682
14541	17	9'091	9'017	14615	8	20'646	13'069	14689	7	13'593	18'500					14854	5	25'413	6'966
14542	13	10'039	9'143	14616	9	20'953	13'881	14690	8	17'295	18'104					14855	7	0'615	7'239
14543	4	15'135	9'684	14617	5	23'700	13'735	14691	8	19'241	18'829					14856	6	4'449	7'324
14544	7	18'373	9'787	14618	5	24'344	13'451	14692	4	0'471	19'403					14857	22	9'192	7'280
14545	10	19'706	9'927	14619	16	25'902	13'444	14693	7	3'603	19'827					14858	13	9'647	7'324
14546	4	20'090	9'848	14620	6	25'966	13'401	14694	8	3'961	19'714					14859	15	10'734	7'418
14547	23	0'197	10'481	14621	8	3'575	14'556	14695	6	4'251	19'966					14860	7	13'406	7'214
14548	6	0'489	10'752	14622	10	6'497	14'905	14696	8	5'865	19'690					14861	16	16'094	7'251
14549	11	0'806	10'653	14623	12	9'486	14'082	14697	9	6'127	19'102					14862	9	16'712	7'581
14550	12	2'640	10'631	14624	5	9'963	14'532	14698	6	6'574	19'680					14863	16	16'844	7'784
14551	13	3'469	10'143	14625	9	10'619	14'118	14699	5	6'950	19'908					14864	9	17'245	7'896
14552	8	3'915	10'544	14626	15	11'065	14'568	14700	12	8'606	19'837					14865	8	17'773	7'781
14553	7	5'312	10'693	14627	9	11'967	14'351	14701	9	8'949	19'183					14866	11	20'512	7'114
14554	13	7'039	10'685	14628	11	12'177	14'806	14702	11	10'127	19'614					14867*	57	22'561	7'396
14555	14	8'549	10'547	14629	14	13'172	14'007	14703	12	14'292	19'876					14868	22	23'276	7'876
14556	7	8'923	10'575	14630	5	16'828	14'366	14704	14	17'989	19'858					14869	13	23'285	7'200
14557	9	9'196	10'058	14631	18	19'243	14'584	14705	13	19'294	19'522					14870	5	23'834	7'121
14558	8	14'812	10'763	14632	11	20'670	14'914	14706	8	20'352	19'983					14871	5	24'940	7'848
14559	11	16'616	10'655	14633	23	23'684	14'893	14707	10	20'678	19'221					14872	6	25'005	7'971
14560	10	16'955	10'473	14634	12	23'920	14'414	14708	8	0'757	20'234					14873	7	5'871	8'657
14561	11	17'113	10'367	14635	6	0'015	15'488	14709	16	4'276	20'562					14874*	32	6'315	8'447
14562	16	22'740	10'033	14636	10	2'656	15'714	14710	6	4'452	20'163					14875	13	6'924	8'518
14563	14	25'413	10'429	14637	5	6'954	15'047	14711	18	5'514	20'993					14876	18	6'945	8'627
14564	6	0'636	11'419	14638	6	8'212	15'704	14712	11	5'581	20'624					14877	6	12'472	8'212
14565	5	2'729	11'543	14639	14	12'009	15'273	14713	7	5'845	20'282					14878	12	14'554	8'546
14566	14	3'621	11'887	14640	6	14'394	15'199	14714*	32	9'614	20'387					14879	13	20'840	8'373
14567	10	4'139	11'413	14641	9	19'409	15'350	14715	10	11'392	20'253					14880	17	21'958	8'666
14568*	32	7'859	11'744	14642	4	19'454	15'261	14716	12	16'376	20'666					14881	17	22'636	8'291
14569	9	9'334	11'604	14643	6	20'543	15'635	14717*	35	23'525	20'984					14882	11	25'531	8'810
14570	7	9'443	11'726	14644	7	20'686	15'730	14718	12	23'707	20'962					14883	8	1'089	9'804
14571	14	11'897	11'369	14645	9	24'900	15'873	14719*	32	25'646	20'945					14884	9	5'716	9'126
14572	11	16'824	11'884	14646*	30	25'512	15'324	14720	4	2'502	21'052					14885	14	14'2	

14893	12	3°77'2	10°14'	14967	12	18°53'6	16°72'4	15041	9	7°95'6	23°28'6	15128	14	17°68'2	1°49'6	15202	14	19°79'7	4°67'1
14894	24	4°25'6	10°72'9	14968	22	19°31'2	16°02'9	15042	10	8°84'3	23°62'9	15129	7	19°90'8	1°08'5	15203	16	19°83'1	4°20'6
14895	14	5°57'0	10°43'1	14969	12	23°85'5	16°53'6	15043	6	17°04'7	23°02'4	15130	21	21°37'3	1°52'1	15204	6	21°13'0	4°30'8
14896	7	11°55'5	10°02'2	14970	12	24°81'8	16°74'3	15044	27	20°80'8	23°88'4	15131	6	22°02'0	1°11'9	15205*	50	21°34'8	4°37'0
14897	10	18°48'7	10°24'3	14971	5	25°62'3	16°64'2	15045	9	21°50'3	23°06'2	15132	26	1°86'5	2°99'3	15206	23	21°91'6	4°59'2
14898	7	19°39'9	10°82'5	14972	5	25°63'1	16°44'0	15046	5	21°66'4	23°53'3	15133	10	2°27'6	2°79'4	15207	8	23°48'0	4°13'4
14899	13	19°44'6	10°23'4	14973	22	6°26'4	17°37'3	15047	7	23°50'4	23°97'6	15134	22	2°93'5	2°19'0	15208*	57	23°70'5	4°03'0
14900	11	20°52'5	10°12'9	14974*	13	7°20'7	17°27'8	15048	10	23°98'6	23°99'0	15135	11	3°47'4	2°94'8	15209	28	23°93'9	4°96'9
14901	23	24°90'0	10°95'3	14975	12	22°02'2	17°95'7	15049	15	24°50'5	23°25'1	15136	12	4°42'1	2°48'0	15210	24	24°55'2	4°51'2
14902*	14	24°99'6	10°11'8	14976*	24	22°39'1	17°50'7	15050*	33	14°01'9	24°10'2	15137	15	4°73'0	2°88'8	15211	30	24°74'5	4°52'2
14903	16	25°86'7	10°04'6	14977	12	23°09'4	17°38'0	15051	20	19°56'0	24°87'9	15138	9	7°35'0	2°99'7	15212	13	1°72'0	5°54'9
14904*	41	4°05'1	11°77'2	14978	8	23°84'1	17°98'2	15052	6	21°35'5	24°74'0	15139*	34	8°66'0	2°06'8	15213	23	4°51'7	5°56'6
14905	5	5°27'3	11°46'4	14979	15	25°18'8	17°92'8	15053	20	21°89'4	24°32'2	15140*	31	10°60'2	2°88'7	15214*	28	4°81'8	5°84'9
14906	7	11°83'8	11°41'1	14980	7	25°71'4	17°88'5	15054	11	22°31'3	24°27'3	15141	24	12°60'5	2°44'1	15215	7	5°78'7	5°76'0
14907	9	12°38'3	11°86'5	14981	10	5°97'3	18°96'3	15055	8	23°35'1	24°05'4	15142*	30	12°70'1	2°72'7	15216	14	5°84'4	5°26'1
14908	5	13°71'4	11°84'1	14982	5	8°52'8	18°67'2	15056	13	23°30'0	24°51'9	15143	18	13°13'1	2°53'9	15217*	27	7°78'2	5°78'0
14909	16	14°82'2	11°40'9	14983	6	16°95'4	18°53'3	15057*	20	6°76'1	25°30'3	15144	24	13°60'4	2°90'2	15218	21	8°11'8	5°37'8
14910	5	15°85'4	11°33'8	14984	5	17°54'7	18°30'3	15058	14	7°25'9	25°49'2	15145	23	14°01'6	2°16'8	15219	24	11°47'6	5°60'0
14911	9	17°51'6	11°46'6	14985	12	17°82'8	18°58'2	15059	5	11°57'6	25°21'1	15146	22	14°21'5	2°96'6	15220	8	11°49'2	5°61'5
14912	6	17°89'8	11°84'3	14986	12	18°37'6	18°65'3	15060	10	15°84'3	25°93'3	15147	23	14°31'7	2°94'8	15221	16	13°46'7	5°91'6
14913*	29	18°38'2	11°68'5	14987	13	20°37'5	18°30'1	15061	5	15°93'2	25°88'6	15148	7	14°53'4	2°75'1	15222	17	13°81'2	5°43'1
14914	11	18°66'9	11°15'2	14988	18	20°43'4	18°37'6	15062	11	18°92'6	25°48'3	15149	24	16°12'3	2°92'3	15223	22	14°02'6	5°08'1
14915	7	18°75'3	11°06'9	14989	5	21°77'6	18°85'0	15063	25	19°61'8	25°44'9	15150	23	16°23'9	2°43'1	15224	7	14°09'7	5°75'5
14916*	31	18°86'6	11°65'3	14990	21	23°34'9	18°72'5	15064	6	20°37'6	25°30'1	15151	26	17°04'6	2°82'2	15225	8	14°21'2	5°86'8
14917	8	19°80'2	11°91'6	14991	27	24°07'8	18°92'4	15065	15	21°92'2	25°21'4	15152	11	17°15'4	2°96'5	15226	16	14°54'0	5°86'0
14918	5	23°22'0	11°41'1	14992	20	25°97'3	18°16'0					15153*	56	17°99'5	2°82'4	15227	22	15°45'1	5°25'0
14919	21	25°01'4	11°49'2	14993	7	5°54'4	19°82'2					15154	11	18°13'2	2°27'6	15228	6	15°69'3	5°90'7
14920	20	2°97'5	12°69'7	14994	9	8°60'5	19°49'9					15155	12	18°77'7	2°04'4	15229	6	16°45'5	5°14'3
14921	9	6°55'6	12°23'1	14995	25	23°66'0	19°37'1					15156	13	25°16'1	2°82'0	15230	12	16°49'4	5°14'7
14922	13	13°86'1	12°33'4	14996	20	24°17'8	19°32'4					15157	10	1°54'7	3°82'5	15231	10	16°66'6	5°21'5
14923	7	13°93'0	12°14'6	14997	8	24°44'0	19°12'3					15158*	50	4°86'6	3°52'2	15232	7	16°72'9	5°42'0
14924	13	18°19'3	12°58'4	14998	9	25°72'3	19°51'8					15159	13	5°00'0	3°02'4	15233	14	17°87'8	5°58'3
14925	9	18°35'4	12°88'8	14999*	42	2°11'5	20°73'6					15160	11	6°09'8	3°25'2	15234	6	18°11'6	5°84'4
14926	7	18°35'5	12°97'8	15000*	33	4°23'8	20°64'9					15161	8	7°36'5	3°06'3	15235	20	18°23'6	5°26'1
14927	17	22°30'8	12°84'2	15001	7	5°22'5	20°34'7					15162	14	8°03'4	3°95'7	15236	10	18°47'7	5°92'3
14928	13	23°34'3	12°23'5	15002	19	17°54'1	20°98'3					15163	19	9°44'2	3°80'8	15237	8	19°65'8	5°42'9
14929	7	25°57'6	12°79'9	15003	14	22°48'4	20°45'0					15164	24	9°60'4	3°00'6	15238	19	19°90'0	5°06'1
14930	11	25°62'6	12°12'6	15004	10	23°09'0	20°65'7					15165	30	9°76'9	3°38'6	15239	11	20°35'5	5°99'3
14931	12	4°32'8	13°14'3	15005	6	25°08'0	20°98'1					15166	20	11°00'5	3°77'4	15240	20	21°55'7	5°73'0
14932	13	5°94'1	13°71'4	15006	5	2°30'2	21°45'3					15167	11	12°23'2	3°92'8	15241	11	21°75'2	5°14'1
14933*	86	10°94'7	13°49'1	15007	16	5°56'6	21°10'7					15168	17	12°65'5	3°44'9	15242	10	22°04'3	5°98'9
14934	12	11°41'4	13°41'3	15008	7	6°86'2	21°24'1					15169*	39	13°24'2	3°85'5	15243	12	23°80'6	5°11'2
14935	12	12°86'2	13°19'4	15009	10	7°96'3	21°65'0					15170	22	15°06'3	3°35'2	15244	16	23°86'3	5°70'6
14936	12	13°72'7	13°36'6	15010	17	10°10'7	21°42'8					15171	28	15°07'5	3°61'8	15245	14	24°25'2	5°91'1
14937	26	13°73'5	13°96'2	15011	6	12°73'6	21°60'9					15172	8	15°42'6	3°75'4	15246	7	5°65'4	6°57'4
14938	7	16°91'3	13°97'2	15012	17	15°75'7	21°97'3					15173	22	17°61'0	3°03'6	15247*	34	6°22'3	6°42'3
14939	13	21°38'2	13°31'2	15013	13	15°77'1	21°12'8					15174	13	18°01'4	3°12'4	15248	10	7°34'5	6°98'2
14940	11	24°81'2	13°75'1	15014	7	16°54'0	21°49'9					15175	14	18°47'0	3°49'6	15249	12	7°46'4	6°94'3
14941	14	25°90'8	13°03'9	15015	5	16°92'1	21°81'6					15176	13	19°15'4	3°55'2	15250*	27	7°61'3	6°32'1
14942	24	2°14'1	14°64'0	15016	7	18°48'3	21°04'8					15177	16	20°22'6	3°76'4	15251*	21	7°83'2	6°51'2
14943	7	2°36'8	14°15'9	15017	5	19°09'6	21°89'1					15178	26	21°93'1	3°37'4	15252	22	8°85'6	6°08'4
14944	5	14°54'2	14°41'3	15018	11	20°24'5	21°15'6					15179	15	21°98'6	3°97'9	15253	28	10°10'1	6°87'3
14945	19	15°69'8	14°21'6	15019	7	21°65'3	21°56'1					15180	23	22°10'2	3°04'3	15254	10	10°12'8	6°59'7
14946	8	20°17'8	14°89'8	15020	6	23°21'0	21°98'4					15181*	37	22°97'8	3°75'2	15255	15	10°39'5	6°03'4
14947	22	21°92'1	14°09'9	15021	27	23°58'9	21°48'9					15182	19	23°74'9	3°86'6	15256	16	10°92'8	6°99'7
14948	13	23°16'7	14°02'4	15022	13	24°01'2	21°38'1					15183	26	24°42'3	3°27'3	15257	14	14°37'1	6°66'8
14949	5	23°41'8	14°09'6	15023	16	5°99'3	22°94'2					15184	25	2°37'8	4°99'2	15258	23	14°51'1	6°37'1
14950	17	25°17'2	14°57'1	15024	15	8°01'3	22°61'6					15185	24	3°11'7	4°32'8	15259	17	14°90'7	6°23'9
14951*	30	3°98'0	15°03'4	15025	24	9°90'2	22°72'4					15186	6	7°18'2	4°87'7	15260	14	15°47'4	6°98'6
14952	11	6°52'0	15°74'4	15026	12	14°31'3	22°48'3					15187	15	7°95'7	4°38'1	15261*	21	15°94'9	6°92'7
14953	13	10°34'7	15°80'1	15027	6	15°72'1	22°21'4					15188*	32	8°70'9	4°46'8	15262*	24	16°19'5	6°34'3
14954	12	11°66'0	15°33'7	15028	13	17°92'6	22°06'4					15189	8	8°79'7	4°56'8	15263	6	16°19'5	6°92'2
14955	18	11°84'7	15°67'5	15029	14	18°32'2	22°17'6					15190	25	8°87'6	4°40'4	15264	23	16°52'9	6°16'5
14956*	40	14°13'8	15°71'1	15030	15	18°33'2	22°19'2					15191	26	10°08'3	4°76'1	15265	18	16°93'6	6°04'5
14957	24	16°61'6	15°47'6	1															

15276	12	22°355	6°378	15350	7	8°393	9°166	15424	7	6°717	11°535	15498	16	4°075	13°166	15572	20	4°243	15°538
15277	16	22°419	6°862	15351	24	8°542	9°619	15425*	32	6°933	11°113	15499	23	4°398	13°728	15573	11	6°501	15°259
15278	12	22°517	6°490	15352	21	9°128	9°397	15426	13	7°211	11°282	15500	9	8°902	13°878	15574*	31	6°600	15°332
15279	16	24°354	6°395	15353	23	9°618	9°176	15427	10	7°387	11°777	15501*	31	9°092	13°897	15575	17	6°623	15°471
15280	9	24°891	6°548	15354	20	9°811	9°421	15428	11	7°396	11°295	15502	7	9°747	13°206	15576	14	9°072	15°804
15281	14	25°023	6°289	15355	16	10°863	9°042	15429	9	8°466	11°371	15503	9	11°295	13°280	15577	8	9°261	15°474
15282	9	25°633	6°170	15356	8	12°766	9°097	15430	26	8°505	11°859	15504	12	11°334	13°198	15578	9	10°675	15°195
15283	8	25°847	6°733	15357	14	12°978	9°195	15431	7	8°591	11°420	15505	28	11°469	13°083	15579	11	10°819	15°248
15284*	60	0°634	7°579	15358	8	13°066	9°084	15432	28	10°835	11°752	15506	26	14°951	13°234	15580	7	11°123	15°887
15285	13	1°352	7°370	15359	9	13°257	9°570	15433	15	12°033	11°689	15507	12	16°606	13°099	15581	14	11°627	15°321
15286	6	1°899	7°281	15360	7	13°426	9°800	15434	9	12°709	11°630	15508	20	16°623	13°150	15582	15	14°166	15°636
15287	8	3°476	7°101	15361	7	14°135	9°067	15435	12	12°813	11°355	15509	9	17°628	13°105	15583	12	15°355	15°124
15288	25	4°922	7°440	15362	6	14°261	9°331	15436	14	13°108	11°504	15510	9	17°866	13°479	15584	24	15°806	15°703
15289	9	5°495	7°895	15363	11	15°272	9°423	15437	11	13°476	11°928	15511	17	18°128	13°825	15585	12	16°495	15°896
15290	12	5°673	7°118	15364	7	18°006	9°807	15438	16	14°263	11°789	15512	12	18°384	13°051	15586*	30	16°947	15°868
15291	14	6°684	7°174	15365	9	18°374	9°488	15439	11	14°510	11°131	15513	19	18°453	13°903	15587	13	18°154	15°122
15292	6	9°276	7°626	15366	16	19°755	9°954	15440	6	15°393	11°729	15514	21	18°617	13°447	15588	5	19°186	15°621
15293	13	9°834	7°039	15367	23	20°013	9°538	15441	14	15°479	11°638	15515*	37	18°976	13°142	15589*	33	20°340	15°336
15294	16	10°312	7°097	15368	12	20°398	9°400	15442	21	15°755	11°923	15516	18	19°007	13°469	15590	22	20°432	15°071
15295	11	10°561	7°138	15369	13	20°508	9°164	15443	24	15°816	11°908	15517	9	19°399	13°464	15591	11	22°174	15°344
15296	19	10°793	7°018	15370	22	22°175	9°869	15444	13	17°350	11°894	15518	11	19°474	13°662	15592	13	22°555	15°046
15297	21	10°906	7°036	15371	19	22°232	9°546	15445	14	17°836	11°137	15519	12	19°785	13°530	15593	14	22°804	15°135
15298	14	13°600	7°341	15372	12	22°394	9°362	15446	22	18°013	11°790	15520	11	20°968	13°694	15594	29	23°465	15°918
15299	8	14°628	7°857	15373	12	23°084	9°678	15447	8	18°502	11°082	15521	23	21°097	13°503	15595	12	23°826	15°511
15300	9	14°766	7°739	15374	20	23°816	9°911	15448*	23	18°988	11°729	15522	11	21°243	13°324	15596	12	24°243	15°558
15301	12	16°070	7°555	15375	16	24°011	9°142	15449	15	19°006	11°869	15523	13	21°932	13°249	15597	26	25°904	15°931
15302	13	16°399	7°732	15376	14	24°093	9°349	15450	9	19°493	11°564	15524	7	23°862	13°886	15598	14	2°081	16°698
15303	21	17°842	7°584	15377	8	24°384	9°120	15451	7	20°741	11°883	15525	13	24°129	13°171	15599	15	3°047	16°887
15304	20	18°256	7°403	15378	9	25°102	9°527	15452	12	21°864	11°824	15526	25	24°544	13°532	15600	10	3°852	16°774
15305	14	18°498	7°048	15379*	18	3°113	10°261	15453	13	21°927	11°203	15527	12	24°956	13°214	15601	11	3°856	16°570
15306	10	18°685	7°382	15380	20	3°984	10°174	15454	18	23°276	11°182	15528	8	25°809	13°726	15602	8	4°454	16°963
15307	15	19°384	7°860	15381	10	4°856	10°847	15455	19	23°504	11°794	15529	11	25°942	13°096	15603	15	4°595	16°518
15308	13	19°819	7°231	15382	7	5°017	10°938	15456	6	24°421	11°479	15530	24	0°104	14°294	15604	7	6°873	16°649
15309	14	22°567	7°078	15383	17	5°422	10°858	15457	18	24°750	11°493	15531	15	1°350	14°196	15605	15	7°582	16°313
15310	13	22°996	7°126	15384	14	7°624	10°962	15458	17	24°845	11°974	15532	7	1°602	14°265	15606	23	7°813	16°842
15311	15	25°535	7°645	15385	11	8°476	10°038	15459	14	1°493	12°406	15533	6	3°314	14°824	15607	9	9°830	16°248
15312	11	25°632	7°163	15386	15	10°480	10°776	15460	11	3°736	12°934	15534	21	3°365	14°710	15608	11	9°951	16°431
15313	18	0°047	8°858	15387	7	10°733	10°918	15461	13	3°777	12°258	15535	11	4°591	14°902	15609	13	10°046	16°592
15314	19	0°719	8°472	15388	6	12°162	10°235	15462	11	4°194	12°164	15536	15	5°366	14°144	15610	12	10°093	16°186
15315	23	1°355	8°048	15389	15	13°331	10°568	15463	15	5°340	12°578	15537	15	5°927	14°495	15611	13	10°100	16°859
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15318	14	3°623	8°944	15392	20	15°084	10°986	15466	24	7°057	12°832	15540	17	6°464	14°074	15614	13	11°243	16°219
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15326	14	11°776	8°214	15400	12	17°686	10°954	15474*	29	14°122	12°001	15548	7	10°541	14°749	15622	13	17°956	16°284
15327	8	12°091	8°447	15401	9	17°967	10°318	15475*	22	14°310	12°114	15549	16	10°942	14°637	15623	11	18°103	16°098
15328	15	12°168	8°266	15402	10	18°636	10°425	15476	11	14°360	12°696	15550	9	11°334	14°577	15624	18	18°207	16°743
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15330	11	14°196	8°905	15404	23	20°608	10°678	15478	30	15°517	12°254	15552	9	14°401	14°336	15626	19	19°471	16°507
15331	16	14°851	8°606	15405	11	21°116	10°479	15479	26	15°734	12°016	15553	14	14°424	14°455	15627	8	19°752	16°376
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15334	21	16°180	8°366	15408	18	21°501	10°484	15482	10	18°111	12°515	15556	11	15°324	14°316	15630	25	24°141	16°759
15335	10	18°844	8°763	15409	12	21°537	10°069	15483	12	18°751	12°408	15557	22	16°736	14°294	15631	15	25°182	16°018
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15337	9	19°755	8°492	15411	16	22°055	10°868	15485	19	20°315	12°174	15559	29	18°760	14°953	15633	13	1°334	17°552
15338	7	19°930	8°224	15412	14	22°184	10°133	15486											

15646	13	16°951	17°655	15720	11	13°994	19°830	15794	11	10°454	21°646	15868	10	24°491	22°135	15942	26	22°213	24°148
15647	21	16°964	17°123	15721	13	15°406	19°867	15795*	27	12°036	21°774	15869*	35	25°479	22°786	15943	7	22°377	24°559
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15649	7	20°631	17°540	15723	9	17°372	19°294	15797	21	12°741	21°845	15871	8	25°926	22°470	15945*	40	23°184	24°674
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15651	11	21°816	17°204	15725	14	17°764	19°854	15799	24	12°885	21°104	15873	20	25°848	23°402	15947	8	25°857	24°434
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15661	11	2°090	18°144	15735	18	24°601	19°234	15809	17	16°079	21°916	15883	26	13°521	23°264	15957	6	10°967	25°087
15662	21	3°438	18°065	15736	10	24°764	19°420	15810	8	16°164	21°543	15884	13	14°027	23°604	15958	24	11°012	25°463
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15677	14	14°403	18°564	15751	13	12°004	20°768	15825	29	24°408	21°611	15899	7	21°472	23°574	15973	11	18°579	25°446
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15688	17	20°384	18°267	15762	15	18°473	20°894	15836	23	9°053	22°412	15910	13	2°338	24°151				
15689	14	21°250	18°263	15763	9	18°857	20°554	15837	11	11°001	22°159	15911	17	3°666	24°655				
15690	12	21°489	18°682	15764	11	19°377	20°243	15838	15	11°784	22°652	15912	7	4°313	24°399				
15691	27	21°947	18°323	15765	10	19°500	20°579	15839	14	12°106	22°332	15913	25	4°600	24°968				
15692*	46	22°656	18°355	15766	17	19°915	20°381	15840	9	12°733	22°904	15914	35	6°367	24°347				
15693	18	22°680	18°766	15767	7	20°747	20°379	15841	15	13°024	22°472	15915*	39	7°297	24°236				
15694*	34	22°724	18°002	15768	16	20°949	20°196	15842	13	13°464	22°676	15916	11	7°409	24°330				
15695	10	23°443	18°041	15769	21	21°854	20°760	15843	22	13°581	22°327	15917	31	8°193	24°459				
15696*	21	24°744	18°734	15770	13	22°369	20°459	15844	14	13°732	22°904	15918	26	8°450	24°303				
15697	9	25°306	18°055	15771	21	22°764	20°114	15845	12	14°046	22°925	15919*	38	9°529	24°139				
15698	29	25°861	18°108	15772	24	23°406	20°965	15846	14	14°075	22°601	15920	29	9°617	24°604				
15699	27	1°935	19°536	15773	6	24°098	20°098	15847	13	14°333	22°156	15921	14	10°554	24°058				
15700	30	2°344	19°082	15774	24	24°411	20°090	15848	21	14°946	22°529	15922*	38	11°428	24°957				
15701	24	2°452	19°480	15775	13	24°417	20°487	15849	26	16°677	22°299	15923*	40	12°383	24°209				
15702	11	2°706	19°275	15776*	28	24°576	20°424	15850*	128	17°417	22°893	15924	21	14°117	24°538				
15703	13	4°001	19°646	15777	11	25°360	20°867	15851	21	17°703	22°547	15925	17	14°545	24°798				
15704	12	4°726	19°118	15778	9	25°734	20°004	15852	22	18°023	22°779	15926	26	14°620	24°811				
15705	11	8°460	19°341	15779*	42	25°842	20°971	15853	12	18°394	22°228	15927	14	16°588	24°319				
15706*	39	8°653	19°097	15780	30	1°898	21°655	15854	10	18°560	22°566	15928	23	17°041	24°654				
15707	14	9°156	19°448	15781	17	2°322	21°541	15855	13	18°633	22°142	15929	19	17°426	24°110				
15708	14	10°143	19°226	15782	7	3°087	21°492	15856	6	19°146	22°552	15930	8	18°043	24°267				
15709	13	10°312	19°432	15783	7	3°266	21°867	15857	16	19°549	22°541	15931	16	18°226	24°491				
15710	25	10°620	19°509	15784	9	3°380	21°121	15858	31	20°530	22								

16011	11	9°745	0°691	16085	24	13°196	2°090	16159	7	1°687	4°147	16233	14	13°670	5°159	16307	13	15°787	6°279
16012	13	10°114	0°708	16086	11	13°754	2°903	16160*	63	1°915	4°046	16234	7	13°776	5°108	16308	22	16°040	6°063
16013	12	10°697	0°976	16087	13	13°814	2°378	16161	27	2°159	4°981	16235	11	13°787	5°544	16309	18	16°161	6°696
16014	13	11°009	0°947	16088	19	14°290	2°075	16162	24	2°765	4°516	16236	9	13°961	5°542	16310	24	16°208	6°025
16015	14	11°225	0°271	16089	22	14°455	2°360	16163	30	2°961	4°526	16237	14	14°344	5°781	16311	9	16°505	6°015
16016	23	11°793	0°229	16090	13	14°637	2°702	16164	6	6°319	4°601	16238	17	14°522	5°916	16312	7	16°844	6°304
16017	19	11°942	0°582	16091	7	15°167	2°881	16165	13	6°322	4°647	16239	13	14°745	5°883	16313	13	17°231	6°099
16018	18	12°087	0°246	16092	6	15°964	2°866	16166	14	6°380	4°730	16240	30	14°811	5°580	16314	11	17°360	6°372
16019	19	13°274	0°716	16093	23	16°429	2°963	16167	11	6°434	4°067	16241	9	15°271	5°447	16315	27	17°721	6°346
16020	22	13°293	0°052	16094	8	16°879	2°532	16168	15	6°705	4°068	16242	14	15°386	5°726	16316	8	18°014	6°596
16021	13	13°517	0°318	16095	14	17°535	2°005	16169	14	7°055	4°989	16243	13	16°147	5°993	16317*	36	18°249	6°053
16022	9	14°521	0°543	16096	13	18°132	2°742	16170	12	8°226	4°300	16244	15	17°636	5°375	16318	18	19°448	6°442
16023	12	15°089	0°774	16097	18	18°687	2°866	16171	24	8°331	4°578	16245	16	18°387	5°922	16319*	47	19°992	6°965
16024	10	16°852	0°832	16098	22	20°181	2°887	16172	11	8°822	4°347	16246	16	19°283	5°092	16320	14	20°426	6°191
16025	14	17°886	0°185	16099	6	20°277	2°637	16173	20	9°185	4°638	16247	11	19°738	5°304	16321	6	21°249	6°131
16026	24	18°124	0°125	16100	23	20°493	2°918	16174	15	9°576	4°076	16248	14	19°802	5°178	16322	9	21°546	6°467
16027	7	20°326	0°817	16101	21	22°282	2°519	16175	12	9°888	4°283	16249	7	19°988	5°851	16323	6	21°971	6°236
16028	27	20°546	0°572	16102	26	23°189	2°707	16176	11	10°345	4°073	16250	14	20°815	5°380	16324	14	22°346	6°189
16029	12	20°989	0°255	16103	17	24°217	2°105	16177	7	10°776	4°536	16251	8	21°337	5°151	16325	25	22°831	6°214
16030	19	21°058	0°817	16104	13	24°499	2°164	16178	12	11°022	4°315	16252	16	21°910	5°622	16326	6	22°974	6°692
16031	12	22°036	0°314	16105	24	25°350	2°841	16179	16	12°286	4°381	16253	13	21°958	5°686	16327	13	24°178	6°646
16032	6	22°719	0°033	16106*	41	25°597	2°196	16180	21	12°465	4°764	16254	12	22°224	5°776	16328	8	24°385	6°896
16033	13	22°831	0°687	16107	6	25°602	2°416	16181	7	12°967	4°462	16255	10	22°225	5°920	16329	6	24°736	6°865
16034	23	24°884	0°903	16108	24	0°131	3°401	16182	6	13°183	4°185	16256	26	22°774	5°994	16330	13	25°258	6°390
16035	8	1°637	1°764	16109	18	0°296	3°069	16183	7	13°437	4°274	16257	17	22°831	5°049	16331	7	25°487	6°225
16036	25	5°801	1°703	16110*	40	1°182	3°773	16184	19	13°740	4°047	16258	18	22°939	5°581	16332	17	25°742	6°500
16037*	42	5°980	1°284	16111	16	1°956	3°878	16185	13	14°309	4°715	16259	7	23°509	5°976	16333	9	0°808	7°101
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16039	31	8°354	1°257	16113	26	4°351	3°129	16187	14	15°079	4°573	16261	6	24°266	5°716	16335	15	3°781	7°640
16040	8	9°376	1°946	16114	6	4°545	3°894	16188	9	15°960	4°628	16262	14	24°350	5°043	16336	11	3°873	7°157
16041	14	10°134	1°246	16115	8	5°186	3°850	16189	13	16°289	4°698	16263	33	25°057	5°336	16337	8	5°865	7°904
16042	17	10°187	1°805	16116	10	5°292	3°196	16190	11	17°926	4°803	16264	8	25°796	5°814	16338	7	7°651	7°934
16043	18	10°489	1°902	16117	10	5°796	3°986	16191	14	18°452	4°920	16265	23	0°581	6°188	16339	19	8°153	7°752
16044	23	11°096	1°947	16118	8	7°145	3°651	16192	13	18°591	4°375	16266	7	0°586	6°404	16340	7	8°209	7°052
16045	30	11°455	1°261	16119	12	8°982	3°469	16193	8	18°976	4°991	16267	12	0°656	6°886	16341	22	8°983	7°764
16046	7	11°719	1°406	16120	6	9°496	3°305	16194	21	19°382	4°462	16268	8	0°748	6°514	16342	7	9°077	7°296
16047	8	11°723	1°774	16121	22	9°865	3°008	16195	16	19°669	4°736	16269	16	2°585	6°400	16343	9	9°302	7°257
16048	14	12°236	1°392	16122	13	10°331	3°026	16196	7	19°746	4°985	16270	10	3°127	6°550	16344	23	9°491	7°758
16049	6	12°771	1°453	16123	12	10°557	3°864	16197*	38	19°945	4°153	16271	14	3°256	6°288	16345	18	11°684	7°783
16050	12	13°042	1°751	16124	14	11°208	3°838	16198	15	19°993	4°625	16272	9	3°865	6°164	16346	19	12°576	7°434
16051	13	13°456	1°324	16125	10	11°599	3°735	16199	11	21°531	4°556	16273	8	4°083	6°727	16347	21	13°216	7°928
16052	8	13°609	1°540	16126	14	11°847	3°103	16200	9	21°614	4°133	16274	23	5°287	6°773	16348	26	13°344	7°046
16053	6	14°085	1°446	16127*	49	12°836	3°028	16201	31	21°741	4°358	16275	19	5°410	6°875	16349	7	13°726	7°464
16054	7	15°040	1°391	16128	8	13°171	3°333	16202	19	21°791	4°213	16276	29	5°479	6°906	16350	18	13°859	7°172
16055	12	15°145	1°967	16129	10	13°359	3°086	16203	8	21°843	4°717	16277	11	5°852	6°295	16351	17	14°410	7°480
16056	12	15°626	1°395	16130	12	13°395	3°490	16204	24	21°935	4°199	16278	9	6°065	6°923	16352	12	14°639	7°205
16057	18	16°163	1°249	16131	31	13°634	3°216	16205	14	22°126	4°500	16279	10	6°446	6°870	16353	27	14°698	7°481
16058	12	16°259	1°135	16132	12	13°763	3°663	16206	18	22°566	4°681	16280	11	6°760	6°730	16354	23	15°980	7°176
16059	11	16°664	1°540	16133	18	14°154	3°237	16207	8	22°963	4°384	16281	16	7°565	6°382	16355	18	17°754	7°751
16060	24	17°202	1°240	16134	6	16°751	3°430	16208	7	23°036	4°167	16282	11	8°507	6°541	16356	11	19°283	7°097
16061*	37	17°915	1°386	16135	11	17°227	3°060	16209	7	23°145	4°905	16283	20	8°830	6°560	16357	26	19°989	7°509
16062	18	18°996	1°774	16136	6	18°454	3°907	16210	8	23°402	4°813	16284	24	10°487	6°462	16358	6	20°019	7°615
16063	17	19°094	1°136	16137	12	18°659	3°279	16211	11	23°691	4°918	16285	20	10°826	6°129	16359	14	20°578	7°313
16064	11	19°433	1°527	16138	19	18°946	3°823	16212	21	24°078	4°731	16286	23	10°936	6°330	16360	10	21°044	7°231
16065	8	19°657	1°596	16139	18	19°027	3°387	16213	14	24°425	4°522	16287	20	11°032	6°204	16361*	79	21°162	7°277
16066	9	21°645	1°541	16140	8	19°048	3°426	16214	9	2°026	5°124	16288	13	11°206	6°944	16362	13	21°255	7°773
16067	13	23°317	1°150	16141	10	19°475	3°223	16215	14	2°087	5°716	16289	22	11°320	6°640	16363	10	22°739	7°138
16068	24	23°569	1°962	16142	15	20°344	3°532	16216	13	2°480	5°917	16290	27	11°544	6°255	16364	14	23°006	7°089
16069	11	23°623	1°099	16143	6	20°456	3°958	16217	9	4°510	5°092	16291	19	11°935	6°065	16365	6	23°307	7°658
16070	14	24°121	1°397	16144	21	21°455	3°088	16218	14	5°672	5°160	16292	18	12°061	6°057	16366	9	25°304	7°207
16071	11	24°204	1°028	16145	15	21°799	3°449	16219	10	6°562	5°828	16293	7	12°743	6°055	16367	17	2°306	8°118
16072	14	3°356	2°818	16146	34	21°929	3°008	16220	10	7°931	5°983	16294	27	12°752	6°640	16368	9	4°739	8°937
16073	6	4°374	2°437	16147	17	22°056	3°790	16221	6	8°756	5°174	16295	9	12°801	6°944	16369	12	4°778	8°412
16074	18	4°613	2°601	16148*	46	22°126	3°153	16222	13	8°988	5°421								

16381	6	10°535	8°851	16455	8	19°254	9°777	16529	17	1°558	11°197	16603	10	8°046	12°137	16677	8	17°647	13°334
16382*	48	10°673	8°512	16456	22	19°539	9°256	16530	19	1°791	11°809	16604	11	8°494	12°470	16678	13	18°471	13°576
16383	21	11°334	8°741	16457	27	19°789	9°886	16531	18	3°035	11°496	16605	6	9°537	12°803	16679	7	18°594	13°375
16384	6	11°936	8°522	16458	12	20°036	9°506	16532	19	3°134	11°975	16606	10	9°620	12°012	16680	6	18°788	13°031
16385	34	12°111	8°698	16459	7	20°607	9°168	16533	7	4°817	11°368	16607	11	10°425	12°906	16681	24	18°962	13°530
16386	9	12°298	8°466	16460	6	20°684	9°613	16534	12	6°236	11°519	16608	7	10°454	12°415	16682	36	19°573	13°792
16387	13	12°351	8°839	16461	14	20°937	9°168	16535*	34	6°293	11°338	16609	11	10°736	12°881	16683	23	19°718	13°490
16388	17	14°250	8°478	16462	13	21°768	9°495	16536	11	7°414	11°296	16610	14	11°086	12°294	16684	14	20°027	13°329
16389	23	14°972	8°580	16463	6	22°380	9°071	16537	28	8°232	11°168	16611	11	11°153	12°016	16685	16	20°079	13°932
16390	15	16°207	8°114	16464	13	23°044	9°408	16538	23	8°955	11°729	16612	16	11°272	12°762	16686	6	20°486	13°620
16391*	38	16°345	8°170	16465	7	23°248	9°307	16539	11	9°139	11°589	16613	24	12°019	12°914	16687	23	20°907	13°013
16392	13	16°996	8°291	16466	20	23°526	9°346	16540*	44	9°155	11°278	16614	7	12°206	12°093	16688	17	21°350	13°887
16393	12	17°229	8°731	16467	7	24°070	9°382	16541	8	9°164	11°563	16615	6	12°356	12°916	16689	17	21°425	13°923
16394	8	17°354	8°169	16468	8	24°297	9°637	16542	13	9°245	11°326	16616	16	12°908	12°168	16690	11	21°483	13°527
16395	9	17°683	8°661	16469	7	24°323	9°786	16543	12	9°310	11°315	16617	7	14°119	12°636	16691	25	21°514	13°321
16396*	52	18°191	8°649	16470	14	24°993	9°683	16544	8	10°048	11°709	16618	22	14°337	12°572	16692	13	21°554	13°723
16397*	45	18°269	8°347	16471	19	0°248	10°454	16545	8	10°237	11°058	16619	21	14°380	12°073	16693	6	21°661	13°472
16398	23	18°432	8°974	16472	13	0°335	10°896	16546	16	10°572	11°993	16620	9	14°545	12°825	16694	18	22°307	13°757
16399	19	19°372	8°442	16473	11	0°455	10°159	16547	6	11°100	11°835	16621	8	15°787	12°786	16695	6	22°776	13°284
16400	20	20°393	8°201	16474	10	1°034	10°305	16548	13	11°265	11°308	16622	15	16°343	12°714	16696	13	22°874	13°334
16401	6	23°691	8°128	16475	10	1°975	10°887	16549	14	12°076	11°397	16623	15	16°640	12°523	16697	7	22°959	13°423
16402	10	24°147	8°724	16476	9	2°782	10°681	16550	7	12°420	11°729	16624	6	17°975	12°665	16698	15	23°107	13°401
16403	13	24°156	8°679	16477	19	2°816	10°165	16551	14	12°639	11°994	16625	21	17°999	12°013	16699	22	23°856	13°156
16404	24	24°358	8°627	16478	7	3°215	10°788	16552	9	12°697	11°576	16626	7	18°682	12°584	16700	13	24°173	13°011
16405	8	24°425	8°418	16479	13	3°327	10°744	16553	10	12°837	11°214	16627	12	19°469	12°617	16701	19	24°705	13°071
16406	6	24°955	8°973	16480	9	3°815	10°823	16554	16	13°511	11°502	16628	7	19°495	12°818	16702	7	25°211	13°417
16407	23	25°238	8°965	16481	13	4°156	10°558	16555	15	13°514	11°066	16629	12	19°793	12°941	16703	21	25°722	13°405
16408	10	25°842	8°349	16482	11	4°447	10°348	16556	13	14°055	11°592	16630	7	20°270	12°490	16704	9	25°826	13°066
16409	13	25°948	8°347	16483	11	5°430	10°822	16557	8	14°477	11°962	16631	6	20°819	12°622	16705	8	0°048	14°324
16410	19	0°443	9°896	16484	21	5°915	10°609	16558	10	14°971	11°964	16632	9	22°793	12°492	16706	26	0°435	14°619
16411	16	0°495	9°572	16485	6	8°269	10°996	16559	13	15°047	11°695	16633	6	22°932	12°077	16707	13	0°484	14°641
16412	7	0°655	9°387	16486	8	8°682	10°287	16560	11	15°472	11°919	16634	7	22°949	12°390	16708	22	0°759	14°220
16413	10	1°352	9°698	16487	7	9°872	10°459	16561	8	15°970	11°709	16635	18	23°200	12°246	16709	16	3°010	14°905
16414	20	2°085	9°923	16488	9	10°123	10°659	16562	7	16°194	11°031	16636	19	23°232	12°824	16710	22	3°114	14°237
16415	15	2°274	9°149	16489	7	10°382	10°146	16563	31	16°730	11°547	16637	7	23°449	12°332	16711	11	3°541	14°498
16416	13	2°356	9°358	16490	7	11°610	10°724	16564	23	17°546	11°944	16638	14	23°476	12°918	16712	7	4°703	14°525
16417	8	2°640	9°127	16491	7	11°923	10°633	16565	12	17°787	11°040	16639	6	24°010	12°052	16713	27	5°536	14°446
16418	9	3°367	9°525	16492	6	12°271	10°701	16566	13	18°106	11°252	16640	15	24°356	12°095	16714	30	5°734	14°472
16419	6	4°195	9°138	16493	12	12°468	10°543	16567	7	18°248	11°507	16641	6	24°599	12°750	16715	7	5°905	14°809
16420	10	4°370	9°288	16494	15	13°119	10°984	16568	8	18°907	11°878	16642	6	24°835	12°886	16716	13	6°121	14°821
16421	27	5°594	9°983	16495	14	13°200	10°322	16569	6	19°021	11°315	16643	12	25°009	12°581	16717	11	6°143	14°232
16422	7	6°112	9°826	16496	17	13°207	10°057	16570	24	19°071	11°950	16644	7	25°666	12°545	16718*	31	7°349	14°580
16423	14	6°391	9°566	16497	6	13°352	10°877	16571	10	19°209	11°301	16645	8	25°837	12°845	16719	16	7°758	14°702
16424	9	6°642	9°259	16498	14	13°609	10°055	16572	9	19°230	11°854	16646	10	0°234	13°281	16720	7	7°766	14°770
16425	13	6°676	9°637	16499	11	13°830	10°183	16573	11	21°376	11°086	16647	6	2°172	13°896	16721	18	8°155	14°356
16426	12	7°496	9°634	16500	12	14°024	10°466	16574	7	21°508	11°173	16648	13	2°433	13°180	16722	35	8°216	14°691
16427	7	7°894	9°556	16501	10	14°331	10°542	16575	7	22°221	11°107	16649	27	2°848	13°537	16723	22	8°758	14°145
16428	7	8°159	9°199	16502	7	15°049	10°591	16576	16	22°411	11°418	16650	11	3°259	13°214	16724	6	9°561	14°679
16429	6	8°476	9°478	16503	8	15°246	10°508	16577	14	22°798	11°237	16651	8	4°117	13°718	16725	22	9°895	14°834
16430	7	8°522	9°602	16504	11	16°857	10°369	16578	29	23°511	11°666	16652	12	4°243	13°088	16726	17	9°943	14°462
16431	12	8°609	9°379	16505	20	17°573	10°773	16579	6	23°689	11°707	16653	9	5°410	13°597	16727	11	9°966	14°215
16432	14	8°928	9°291	16506	14	17°804	10°451	16580	16	23°825	11°514	16654	9	6°033	13°730	16728	14	10°382	14°198
16433	17	9°609	9°524	16507	8	18°832	10°862	16581	14	24°055	11°701	16655	6	6°329	13°749	16729	6	10°489	14°403
16434	15	9°954	9°983	16508	7	18°999	10°919	16582	8	24°230	11°331	16656	22	6°625	13°088	16730	6	10°546	14°416
16435	16	9°995	9°073	16509	6	19°053	10°444	16583	14	25°654	11°178	16657*	39	6°666	13°087	16731	21	10°751	14°783
16436	12	10°154	9°323	16510	14	19°397	10°386	16584	10	25°841	11°250	16658	26	6°909	13°639	16732	10	11°022	14°908
16437	12	10°258	9°380	16511	13	19°452	10°656	16585	23	0°349	12°759	16659	21	7°137	13°467	16733	14	12°642	14°485
16438	6	10°822	9°322	16512	9	19°457	10°978	16586	6	0°712	12°912	16660	12	7°190	13°598	16734	7	13°221	14°812
16439	22	11°073	9°518	16513	26	19°951	10°703	16587	6	0°777	12°443	16661	11	7°399	13°182	16735	12	13°563	14°547
16440	21	11°406	9°950	16514	11	21°987	10°244	16588	24	3°960	12°573	16662	6	8°144	13°959	16736	21	13°634	14°619
16441	7	11°508	9°775	16515	34	22°364	10°489	16589	8	4°058	12°927	16663	16	9°234	13°124	16737	11	13°765	14°092
16442*	37	11°562	9°863	16516	12	22°508	10°663	16590	6	4°142	12°196	16664	14	9°841	13°215	16738	16	14°481	14°628
16443	13	11°594	9°721	16517	24	22°583	10°442	16591	21	4°603	12°728	16665	13						

16751	13	19°877	14°270	16825	13	7°693	16°718	16899	8	10°990	17°406	16973*	26	13°694	18°087	17047	16	14°666	19°416
16752	15	20°104	14°891	16826*	29	7°736	16°749	16900	6	11°536	17°329	16974*	43	13°837	18°862	17048	14	16°471	19°632
16753	17	20°434	14°931	16827	11	7°876	16°727	16901	25	11°557	17°498	16975	13	14°029	18°505	17049	16	16°477	19°886
16754	10	20°549	14°144	16828	9	8°293	16°324	16902	8	11°902	17°552	16976	6	14°142	18°804	17050*	59	17°042	19°211
16755	8	21°170	14°342	16829	14	8°774	16°006	16903	7	12°184	17°613	16977	15	14°194	18°155	17051*	34	17°743	19°926
16756	9	22°733	14°051	16830	21	9°199	16°687	16904	23	12°296	17°524	16978*	24	14°360	18°879	17052	22	18°439	19°831
16757	16	23°200	14°803	16831	17	9°720	16°363	16905	6	12°638	17°656	16979	9	14°892	18°798	17053	22	18°656	19°003
16758	6	23°364	14°255	16832	8	10°463	16°415	16906	27	13°201	17°240	16980	12	14°943	18°547	17054	26	18°660	19°886
16759	8	23°713	14°654	16833	12	12°379	16°284	16907	18	13°300	17°220	16981	7	15°448	18°233	17055	18	19°201	19°772
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16761	6	25°987	14°338	16835	11	12°604	16°783	16909	10	14°338	17°949	16983	20	15°766	18°463	17057	12	19°303	19°157
16762	7	0°494	15°371	16836	13	12°693	16°824	16910	15	14°604	17°665	16984	12	16°496	18°079	17058	10	19°493	19°668
16763	9	0°877	15°071	16837	20	12°919	16°343	16911	21	14°667	17°323	16985	17	16°635	18°719	17059	13	20°742	19°172
16764	13	1°125	15°158	16838	11	13°240	16°792	16912	6	14°904	17°922	16986	19	16°965	18°980	17060	16	21°144	19°551
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16768	29	4°232	15°920	16842	7	14°367	16°198	16916	20	16°281	17°662	16990	9	18°934	18°702	17064	15	22°793	19°872
16769	13	4°599	15°974	16843	11	14°485	16°017	16917	6	16°427	17°527	16991	30	18°997	18°880	17065	8	23°300	19°137
16770*	49	6°058	15°731	16844	10	14°963	16°894	16918	6	16°938	17°347	16992	16	19°086	18°074	17066	7	23°541	19°141
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16773	15	6°703	15°638	16847	6	17°053	16°833	16921	8	18°564	17°957	16995	27	20°397	18°886	17069	19	1°136	20°134
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16775	8	7°322	15°614	16849	16	17°385	16°941	16923	7	20°453	17°306	16997	10	20°635	18°889	17071	25	2°781	20°094
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16777	21	9°011	15°191	16851	8	18°020	16°931	16925	17	21°235	17°968	16999	31	22°156	18°546	17073*	30	2°950	20°427
16778	14	9°190	15°895	16852	7	18°518	16°142	16926	18	21°314	17°604	17000	18	22°767	18°427	17074	6	3°383	20°236
16779	27	9°749	15°827	16853	14	19°074	16°536	16927	6	21°317	17°993	17001	23	22°931	18°489	17075	6	3°523	20°125
16780	6	10°384	15°059	16854	29	19°314	16°330	16928	17	21°828	17°540	17002	14	22°940	18°535	17076	13	3°740	20°863
16781	18	10°557	15°228	16855	22	19°453	16°771	16929	12	22°204	17°884	17003	29	24°083	18°860	17077*	42	4°220	20°958
16782	7	11°469	15°188	16856	6	19°916	16°703	16930	15	22°586	17°287	17004	11	24°454	18°386	17078	11	5°057	20°647
16783	28	11°767	15°484	16857	19	20°006	16°961	16931	23	22°742	17°820	17005	8	24°546	18°745	17079	10	6°662	20°052
16784	13	13°176	15°489	16858	16	20°231	16°715	16932	20	22°769	17°149	17006	7	24°618	18°430	17080	10	6°941	20°616
16785	11	13°719	15°784	16859	12	20°802	16°964	16933	7	22°806	17°041	17007	31	24°857	18°664	17081	6	7°345	20°802
16786	6	13°960	15°832	16860	31	20°829	16°321	16934	6	23°123	17°578	17008	9	24°993	18°575	17082	10	8°105	20°127
16787*	34	14°295	15°648	16861	20	21°219	16°247	16935*	31	23°608	17°253	17009	8	25°891	18°845	17083	6	8°841	20°487
16788	6	14°407	15°961	16862	17	21°467	16°570	16936	12	23°666	17°247	17010	19	0°269	19°909	17084	26	8°927	20°552
16789	12	14°435	15°760	16863	11	22°575	16°407	16937	12	23°684	17°055	17011	18	1°047	19°964	17085	7	9°213	20°199
16790	6	14°767	15°354	16864	9	22°613	16°497	16938	14	24°449	17°449	17012	35	1°855	19°821	17086	24	9°348	20°873
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16796	6	19°098	15°393	16870	9	25°042	16°541	16944*	51	1°010	18°377	17018	17	3°545	19°041	17092	8	11°822	20°915
16797	15	19°312	15°397	16871	16	25°471	16°253	16945	17	1°037	18°790	17019	17	4°042	19°490	17093	18	11°860	20°174
16798	12	19°414	15°573	16872	10	25°662	16°391	16946*	39	1°074	18°023	17020	12	4°105	19°997	17094	13	12°714	20°830
16799	13	19°430	15°680	16873	17	25°726	16°560	16947	8	1°793	18°057	17021	12	4°200	19°154	17095	20	12°781	20°722
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16801	21	19°821	15°253	16875	21	2°084	17°166	16949	11	3°656	18°053	17023	15	4°778	19°704	17097*	38	13°494	20°752
16802	12	20°613	15°742	16876	10	2°421	17°337	16950	32	4°211	18°099	17024	10	5°164	19°497	17098	23	13°507	20°744
16803	22	20°956	15°561	16877	20	3°015	17°100	16951	6	4°269	18°943	17025	16	5°521	19°736	17099	7	13°858	20°504
16804	14	21°163	15°164	16878	23	3°312	17°991	16952	13	4°673	18°730	17026	14	6°013	19°838	17100	6	14°836	20°536
16805	15	21°756	15°392	16879	24	3°409	17°668	16953	21	4°828	18°138	17027	12	6°357	19°539	17101	9	15°416	20°018
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16809	11	23°594	15°487	16883	13	4°657	17°344	16957	7	7°202	18°539	17031	13	7°886	19°254	17105	6	16°510	20°409
16810	17	23°667	15°643	16884	10	4°685	17°291	16958	12	7°317	18°964	17032	6	8°177	19°218	17106	13	16°745	20°624
16811	12	23°905	15°853	16885	18	5°002	17°603	16959	23	8°646	18°211	17033	10	8°558	19°391	17107	18	16°773	20°994
16812	13	23°913	15°777	16886	8	6°066	17°903	16960	10	8°715	18°502	17034	8	9°034	19°728	17108	6	17°334	20°583
16813	6	24°162																	

17121	11	21°58	20°016	17195	14	8°095	22°529	17269	6	17°786	23°446	17343*	38	12°339	25°643	17427	17	11°681	1°178
17122	35	22°454	20°939	17196	13	8°764	22°749	17270	12	18°129	23°514	17344	25	12°610	25°938	17428*	18	12°684	1°752
17123	13	22°651	20°712	17197	8	8°983	22°230	17271	21	18°180	23°463	17345	10	13°007	25°420	17429	9	12°847	1°692
17124	21	22°916	20°413	17198	11	9°926	22°251	17272	6	18°344	23°904	17346*	36	13°556	25°187	17430	10	13°203	1°094
17125	7	23°013	20°711	17199	12	10°275	22°759	17273	16	19°295	23°188	17347	22	13°833	25°982	17431	7	13°833	1°176
17126	6	23°099	20°258	17200	26	10°454	22°779	17274	12	20°628	23°293	17348	6	13°912	25°319	17432	8	14°931	1°152
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17128	12	24°666	20°671	17202	11	11°922	22°627	17276	19	23°646	23°631	17350*	24	15°840	25°623	17434	11	17°561	1°578
17129	21	25°454	20°463	17203	15	12°616	22°599	17277	7	23°700	23°358	17351	18	16°702	25°278	17435	16	18°165	1°204
17130	19	0°733	21°978	17204	9	12°656	22°794	17278	14	24°466	23°439	17352	7	16°846	25°716	17436	11	18°883	1°557
17131	21	2°436	21°614	17205	28	13°060	22°709	17279	15	24°563	23°917	17353	13	17°402	25°951	17437	7	19°494	1°984
17132*	39	2°649	21°629	17206	14	14°619	22°697	17280	23	0°625	24°176	17354	14	17°610	25°090	17438	9	22°003	1°196
17133	14	2°678	21°969	17207	20	15°037	22°326	17281	16	0°791	24°184	17355	9	18°295	25°952	17439	12	22°054	1°697
17134	27	2°714	21°755	17208	11	15°285	22°760	17282*	36	1°598	24°689	17356	14	18°664	25°011	17440	16	23°493	1°102
17135	31	2°795	21°616	17209*	47	15°756	22°526	17283	12	3°380	24°119	17357	18	19°660	25°544	17441	18	23°559	1°049
17136	17	3°342	21°304	17210	13	15°820	22°571	17284	7	3°410	24°640	17358*	42	19°872	25°241	17442	21	25°963	1°939
17137	8	3°565	21°406	17211	6	16°167	22°699	17285	12	4°276	24°425	17359	7	20°513	25°842	17443	16	0°699	2°796
17138	13	4°718	21°913	17212	24	16°741	22°639	17286	6	4°395	24°348	17360	14	21°666	25°701	17444	15	1°069	2°035
17139	6	4°844	21°895	17213*	23	18°135	22°444	17287	26	4°903	24°450	17361	17	23°257	25°116	17445	9	1°723	2°168
17140	14	5°363	21°800	17214	11	18°449	22°106	17288	13	5°035	24°878	17362	12	23°316	25°967	17446	13	2°878	2°892
17141	22	5°688	21°123	17215	24	18°475	22°761	17289	13	5°654	24°170	17363	26	23°756	25°982	17447*	26	3°118	2°238
17142	13	5°909	21°484	17216	7	18°667	22°750	17290	7	5°863	24°942	17364	6	23°884	25°159	17448	11	4°740	2°186
17143	14	6°061	21°964	17217	6	19°423	22°191	17291*	34	5°939	24°595	17365	17	25°175	25°269	17449	10	7°379	2°179
17144	12	6°184	21°057	17218	21	20°682	22°285	17292	11	6°264	24°498	17366*	61	25°621	25°213	17450	14	7°770	2°498
17145	21	6°305	21°366	17219	6	20°824	22°643	17293	20	6°961	24°638	17367	13	25°684	25°072	17451*	17	8°364	2°193
17146	23	6°570	21°909	17220	6	20°966	22°694	17294	23	7°139	24°833					17452	7	8°660	2°949
17147	7	6°928	21°310	17221	22	21°419	22°772	17295	10	7°369	24°848					17453	9	9°086	2°921
17148	17	7°379	21°344	17222	11	21°631	22°318	17296	8	7°822	24°453					17454	10	11°813	2°785
17149	6	8°147	21°218	17223	14	21°649	22°443	17297	6	7°900	24°434					17455	12	12°610	2°030
17150	24	8°293	21°204	17224	8	21°778	22°211	17298	24	7°945	24°087					17456	13	13°650	2°846
17151	21	8°454	21°025	17225	7	22°421	22°307	17299	13	8°632	24°775					17457	11	14°319	2°846
17152	12	8°462	21°172	17226	7	22°567	22°174	17300	23	8°682	24°195					17458	11	14°460	2°898
17153	14	9°166	21°344	17227	7	22°942	22°081	17301	24	8°916	24°844					17459	13	12°149	2°519
17154*	47	9°613	21°380	17228	35	23°643	22°635	17302	23	9°072	24°148					17460	16	22°709	2°086
17155	12	11°104	21°945	17229	16	24°437	22°602	17303	9	9°374	24°464					17461	6	23°460	2°479
17156*	42	11°537	21°084	17230	13	24°481	22°914	17304	14	9°565	24°564					17462	13	23°470	2°164
17157	17	11°745	21°481	17231	15	24°516	22°842	17305	15	9°654	24°885					17463	12	4°039	3°442
17158	6	12°053	21°174	17232	9	25°715	22°902	17306	10	9°808	24°239					17464	11	4°602	3°249
17159	6	12°372	21°858	17233	7	0°863	23°844	17307	12	9°935	24°066					17465	12	5°349	3°787
17160	21	13°469	21°193	17234	11	1°293	23°263	17308	8	10°037	24°696					17466	10	7°932	3°718
17161	29	13°510	21°851	17235	12	1°299	23°140	17309	16	12°546	24°201					17467*	18	8°602	3°357
17162	7	14°261	21°693	17236	19	1°444	23°317	17310	13	14°413	24°302					17468	9	9°163	3°400
17163	31	14°712	21°705	17237	7	1°660	23°411	17311	22	15°154	24°637					17469	8	10°310	3°969
17164	19	14°856	21°068	17238	11	4°009	23°410	17312	11	15°178	24°130					17470	16	10°460	3°942
17165	6	15°351	21°790	17239	11	4°426	23°808	17313	20	16°101	24°748					17471	8	11°279	3°271
17166	9	15°688	21°209	17240	27	5°677	23°300	17314	27	16°136	24°271					17472	12	14°811	3°182
17167	16	15°717	21°242	17241	12	6°065	23°143	17315	15	16°243	24°877					17473	14	16°296	3°521
17168	13	15°828	21°675	17242	7	6°369	23°709	17316	12	16°431	24°449					17474	12	17°507	3°535
17169	6	16°448	21°011	17243	18	6°654	23°561	17317	17	16°856	24°742					17475	11	17°663	3°510
17170	28	16°677	21°893	17244	16	7°682	23°343	17318	11	17°039	24°439					17476	11	17°844	3°270
17171	13	18°118	21°978	17245	34	7°763	23°222	17319	17	17°160	24°105					17477*	53	20°571	3°769
17172	11	18°876	21°824	17246	7	8°119	23°553	17320*	34	17°266	24°094					17478	20	21°913	3°198
17173	13	19°885	21°471	17247	13	8°242	23°575	17321	15	18°180	24°856					17479	11	0°106	4°799
17174	6	20°769	21°686	17248	32	8°402	23°429	17322	19	18°411	24°863					17480	12	1°632	4°820
17175	7	24°111	21°669	17249	19	9°581	23°490	17323	25	18°629	24°004					17481	9	4°140	4°241
17176	21	25°105	21°870	17250	7	9°720	23°984	17324	29	18°803	24°066					17482	7	7°272	4°042
17177	7	0°094	22°214	17251	24	9°729	23°862	17325	6	19°656	24°457					17483	11	9°622	4°853
17178	15	0°319	22°542	17252	26	10°432	23°670	17326	10	20°041	24°728					17484	7	9°998	4°751
17179	7	1°141	22°517	17253	13	10°686	23°559	17327	6	21°769	24°214					17485	13	10°360	4°397
17180	17	1°803	22°811	17254	23	10°708	23°280	17328	23	23°780	24°189					17486	7	10°622	4°511
17181	9	2°058	22°173	17255	12	11°133	23°043	17329	7	23°909	24°340					17487*	34	11°270	4°105
17182	24	2°355	22°080	17256	8	12°057	23°352	17330	6	1°618	25°283					17488	10	11°637	4°384
17183	24	2°640	22°434	17257	46	12°500	23°328	17331	11	3°176	25°719					17489	7	12°182	4°121
17184	9	2°883	22°142	17258*	60	12°511	23°282	17332	14	3°735	25°964					17490	11	12°485	4°092
17185*	32	3°877	22°778	17259	21	12°563	23°306	17333	27	4°561	25°499					17491*	21	13°330	4°629
17186	23	4°259	22°159	17260	22	12°608	23°939	17334	30	5°732	25°293					17492	7	14°131	4°598
17187	12	4°324	22°459	17261	12	12°611	23°314	17335	20	6°019	25°138					17493	8	14°561	4°919
17188	13	4°748	22°499	17262	31														

17501	12	4°403	5°687	17575	13	7°423	8°627	17649	10	12°610	11°532	17723	9	22°191	13°822	17797	16	24°718	16°121
17502	17	5°860	5°500	17576	9	10°574	8°149	17650*	11	14°836	11°340	17724	9	22°234	13°350	17798*	24	24°838	16°493
17503	10	6°395	5°182	17577	13	11°560	8°115	17651*	18	15°385	11°357	17725	17	22°388	13°511	17799*	19	25°449	16°053
17504	17	7°514	5°392	17578	6	12°720	8°759	17652*	10	16°389	11°316	17726	12	22°753	13°051	17800	11	0°536	17°362
17505	6	7°568	5°833	17579	16	14°234	8°665	17653	5	17°284	11°254	17727	15	23°279	13°440	17801	6	0°960	17°189
17506	7	7°753	5°428	17580	7	14°291	8°800	17654	6	17°341	11°649	17728	12	23°831	13°651	17802*	19	1°383	17°452
17507	9	7°776	5°738	17581	6	16°794	8°193	17655	17	20°371	11°630	17729	8	23°843	13°690	17803*	14	2°378	17°801
17508	12	10°300	5°369	17582	11	17°305	8°225	17656	24	20°885	11°610	17730	9	0°929	14°989	17804	8	2°582	17°109
17509	9	10°502	5°601	17583	10	19°323	8°529	17657	6	21°400	11°150	17731	15	5°041	14°150	17805	18	3°017	17°681
17510	10	11°285	5°510	17584	18	19°759	8°734	17658	9	22°512	11°430	17732	16	5°346	14°040	17806	12	4°177	17°576
17511	14	11°742	5°874	17585	11	20°576	8°330	17659	8	22°743	11°896	17733	14	6°759	14°021	17807	8	4°551	17°962
17512	9	12°246	5°754	17586*	22	20°843	8°272	17660	7	22°770	11°470	17734	8	7°320	14°358	17808	13	6°331	17°591
17513	8	13°585	5°196	17587	19	22°010	8°369	17661	6	23°843	11°694	17735	7	8°469	14°107	17809	8	7°352	17°002
17514	9	13°628	5°963	17588*	50	22°372	8°192	17662	9	0°882	12°410	17736	13	10°176	14°265	17810	9	7°678	17°673
17515	10	15°089	5°442	17589*	40	23°442	8°262	17663	8	0°921	12°992	17737	6	10°251	14°460	17811	7	9°829	17°978
17516	7	15°252	5°109	17590	19	25°216	8°956	17664	6	2°711	12°713	17738	7	10°630	14°334	17812	6	10°429	17°200
17517	10	17°380	5°289	17591	10	25°803	8°133	17665*	17	4°241	12°010	17739	7	10°731	14°927	17813	18	12°520	17°928
17518*	25	19°826	5°773	17592	10	1°158	9°482	17666	8	4°713	12°243	17740	8	11°950	14°041	17814	10	14°882	17°390
17519	13	20°555	5°260	17593	8	2°641	9°794	17667	7	5°550	12°747	17741	6	13°244	14°719	17815	7	16°822	17°983
17520	15	25°455	5°939	17594	12	2°875	9°068	17668	12	6°669	12°351	17742	7	13°993	14°120	17816	9	16°919	17°372
17521	19	0°339	6°116	17595	6	3°872	9°011	17669	13	6°836	12°194	17743	7	16°460	14°791	17817	14	17°790	17°655
17522	16	0°400	6°339	17596	17	4°884	9°467	17670	7	9°236	12°895	17744	15	17°092	14°779	17818	7	19°085	17°381
17523	10	1°699	6°091	17597	7	5°823	9°898	17671	15	9°409	12°307	17745	10	17°413	14°500	17819	12	19°120	17°018
17524	9	3°341	6°574	17598*	16	5°979	9°121	17672	14	10°010	12°441	17746	7	18°279	14°109	17820	8	20°381	17°923
17525	10	4°095	6°127	17599	6	7°919	9°921	17673	7	11°826	12°581	17747	10	19°640	14°103	17821	16	21°123	17°079
17526	15	4°752	6°427	17600	7	8°078	9°639	17674	6	12°892	12°879	17748	15	19°901	14°766	17822	15	22°161	17°700
17527	9	5°466	6°450	17601	8	8°749	9°844	17675	6	13°243	12°800	17749	16	19°903	14°898	17823	12	22°182	17°320
17528	14	6°412	6°952	17602	10	8°993	9°522	17676	7	13°896	12°858	17750	9	19°969	14°163	17824	16	22°240	17°426
17529	7	9°428	6°093	17603	11	9°780	9°157	17677	7	15°472	12°710	17751	8	20°140	14°302	17825*	21	24°998	17°681
17530	10	9°756	6°033	17604	10	10°195	9°669	17678	11	16°818	12°645	17752	8	21°291	14°220	17826	13	0°520	18°039
17531	9	10°420	6°601	17605	7	11°335	9°232	17679	8	17°332	12°560	17753	11	21°411	14°453	17827	15	0°722	18°709
17532	6	10°671	6°400	17606	12	11°592	9°043	17680	8	17°852	12°799	17754*	37	22°681	14°961	17828	20	2°670	18°850
17533	10	12°231	6°846	17607	9	13°944	9°077	17681	15	18°551	12°460	17755	8	24°042	14°435	17829	6	5°167	18°470
17534	11	12°523	6°521	17608	11	16°724	9°240	17682	10	18°988	12°991	17756	11	24°151	14°279	17830	6	7°018	18°639
17535	7	14°550	6°810	17609	6	17°785	9°689	17683	8	19°336	12°896	17757	8	1°412	15°828	17831	8	7°111	18°741
17536	7	15°682	6°918	17610	9	18°300	9°402	17684	8	19°600	12°350	17758	17	2°056	15°340	17832	8	7°139	18°172
17537	10	16°121	6°376	17611	10	19°095	9°537	17685	13	20°383	12°720	17759	26	2°967	15°229	17833	10	8°760	18°672
17538*	16	18°559	6°523	17612	6	20°207	9°447	17686	8	21°465	12°302	17760	11	3°031	15°429	17834	11	9°052	18°924
17539*	13	18°612	6°910	17613	11	21°081	9°426	17687*	14	21°470	12°882	17761*	26	4°271	15°452	17835	10	9°740	18°963
17540	12	18°904	6°562	17614	13	24°725	9°686	17688*	8	22°352	12°831	17762	6	4°670	15°245	17836	8	12°042	18°560
17541	7	19°751	6°608	17615	22	0°010	10°654	17689	16	22°634	12°302	17763	7	7°033	15°560	17837	18	12°163	18°193
17542	10	21°884	6°500	17616	13	0°225	10°606	17690	6	23°242	12°580	17764	9	10°281	15°629	17838	9	12°263	18°399
17543*	20	21°979	6°538	17617	12	2°828	10°457	17691	8	24°245	12°596	17765	8	11°904	15°049	17839	6	12°325	18°674
17544	12	22°360	6°029	17618	14	3°471	10°318	17692	8	0°006	13°952	17766	13	13°804	15°360	17840	9	13°179	18°239
17545	10	23°681	6°844	17619	7	5°220	10°809	17693	12	1°561	13°317	17767	6	17°750	15°079	17841	6	14°608	18°775
17546	16	25°696	6°501	17620	15	5°772	10°779	17694	12	2°412	13°214	17768	14	18°911	15°172	17842	6	16°908	18°230
17547	12	4°965	7°173	17621	10	6°215	10°357	17695	12	3°446	13°531	17769	8	19°173	15°140	17843	8	17°034	18°132
17548	13	5°105	7°410	17622	11	7°078	10°549	17696	14	4°273	13°400	17770	10	19°807	15°722	17844*	23	17°125	18°461
17549	7	7°641	7°468	17623	7	8°509	10°777	17697	8	4°551	13°969	17771	8	21°271	15°166	17845	8	17°138	18°224
17550	11	8°547	7°694	17624	14	9°320	10°920	17698	11	4°830	13°304	17772	10	1°673	16°623	17846	7	17°669	18°360
17551	12	9°549	7°870	17625	15	10°505	10°116	17699	16	5°995	13°599	17773	10	3°242	16°409	17847	22	17°671	18°789
17552	16	9°755	7°578	17626	10	14°396	10°420	17700	6	8°278	13°803	17774	10	3°504	16°712	17848*	23	18°960	18°971
17553	19	9°911	7°851	17627	8	14°944	10°260	17701	14	9°901	13°204	17775	8	5°172	16°075	17849	13	19°241	18°413
17554	14	10°310	7°288	17628	7	15°271	10°659	17702	7	10°130	13°478	17776	13	5°389	16°410	17850	22	19°978	18°491
17555	7	11°353	7°830	17629	11	16°647	10°032	17703*	27	11°021	13°611	17777	10	5°811	16°209	17851	7	20°631	18°860
17556	7	13°430	7°564	17630	17	17°345	10°141	17704	6	12°110	13°270	17778	10	5°855	16°103	17852	14	21°396	18°470
17557	11	13°690	7°423	17631	8	17°422	10°440	17705	20	14°582	13°099	17779	10	6°411	16°768	17853	7	21°852	18°571
17558	15	15°100	7°717	17632	7	18°247	10°313	17706*	19	14°820	13°930	17780	18	6°849	16°292	17854	12	23°608	18°961
17559	11	17°759	7°209	17633	9	21°333	10°902	17707	9	14°930	13°180	17781	5	7°250	16°566	17855	8	23°917	18°160
17560	10	18°236	7°418	17634*	26	22°429	10°013	17708	7	14°966	13°329	17782	8	7°622	16°160	17856	18	1°891	19°060
17561	14	18°530	7°475	17635	7	24°440	10°376	17709	7	16°851	13°060	17783*	28	8°600	16°225	17857	12	4°911	19°699
17562	16	19°959	7°818	17636*	44	25°065	10°486	17710	7	16°882	13°940	17784	7	10°520	16°499	17858	17	5°100	19°022
17563	7	23°226	7°803	17637	8	0°069	11°590	17711	6	17°050	13°679	17785	6	15°710	16°501	17859	14	5°198	19°952

17871	26	23°061	19°520	17945	13	7°972	24°077	18024	10	21°581	0°347	18098*	26	6°490	3°807	18172	16	10°579	5°603
17872	8	23°267	19°389	17946	10	8°221	24°117	18025	12	22°752	0°406	18099	9	6°778	3°052	18173	18	10°670	5°977
17873	6	23°281	19°015	17947*	17	8°633	24°016	18026	23	22°762	0°538	18100	7	6°807	3°885	18174*	34	10°915	5°663
17874*	41	23°606	19°783	17948	10	9°366	24°537	18027	11	0°346	1°117	18101*	26	8°239	3°743	18175	12	10°957	5°066
17875	10	0°744	20°651	17949	11	10°870	24°279	18028	14	0°409	1°618	18102	11	8°983	3°625	18176	14	11°384	5°713
17876	13	3°302	20°654	17950	7	13°092	24°908	18029	27	1°064	1°996	18103	26	9°397	3°891	18177	15	11°645	5°368
17877	10	4°895	20°616	17951	7	14°214	24°780	18030	26	1°824	1°001	18104	13	10°214	3°480	18178	10	13°730	5°604
17878	8	5°780	20°039	17952	9	14°767	24°450	18031	15	4°073	1°392	18105	11	10°266	3°112	18179	8	14°164	5°199
17879*	19	6°562	20°929	17953	10	17°843	24°566	18032	28	4°292	1°784	18106	7	10°368	3°479	18180	15	15°256	5°127
17880	10	9°512	20°320	17954	13	18°768	24°496	18033	15	6°308	1°819	18107	14	10°447	3°762	18181	19	16°047	5°845
17881	7	10°767	20°852	17955	20	20°713	24°971	18034	9	6°817	1°109	18108	15	10°461	3°138	18182	11	16°054	5°096
17882	6	10°893	20°491	17956*	97	23°133	24°428	18035	13	7°498	1°776	18109	7	10°494	3°817	18183	11	17°734	5°900
17883	9	12°803	20°029	17957	10	25°274	24°237	18036	30	9°354	1°837	18110	20	12°085	3°053	18184	19	17°837	5°916
17884	8	13°462	20°092	17958*	48	3°553	25°436	18037	11	10°148	1°912	18111	24	12°449	3°384	18185	12	18°233	5°757
17885	9	14°179	20°476	17959	12	3°973	25°747	18038	27	10°291	1°469	18112	19	12°866	3°925	18186	11	18°309	5°066
17886	6	14°930	20°656	17960	14	5°901	25°800	18039	11	10°936	1°076	18113	23	13°542	3°853	18187	6	18°832	5°235
17887	8	18°831	20°130	17961	17	6°031	25°574	18040	8	10°938	1°410	18114	24	13°719	3°957	18188	7	18°886	5°483
17888	7	23°519	20°657	17962	12	6°517	25°246	18041	11	12°126	1°947	18115	13	13°923	3°658	18189	6	19°189	5°194
17889	17	25°039	20°260	17963	5	6°519	25°293	18042	6	16°461	1°692	18116	9	13°966	3°062	18190	19	20°025	5°092
17890	31	0°286	21°189	17964	13	7°376	25°859	18043	6	19°567	1°382	18117	11	15°625	3°548	18191	19	20°705	5°800
17891	13	6°844	21°262	17965*	21	9°819	25°427	18044	8	20°296	1°889	18118*	38	16°211	3°359	18192	7	20°744	5°556
17892	8	8°372	21°943	17966	10	11°378	25°708	18045	8	20°446	1°551	18119	7	16°588	3°553	18193	8	21°057	5°034
17893	15	8°506	21°678	17967*	23	11°452	25°009	18046	19	20°571	1°740	18120	8	16°819	3°221	18194	7	22°622	5°590
17894	8	8°841	21°062	17968*	10	12°576	25°110	18047	25	20°590	1°439	18121	24	17°184	3°123	18195	6	24°026	5°242
17895	18	9°520	21°081	17969	10	12°794	25°450	18048	7	20°607	1°364	18122	12	18°863	3°620	18196	27	24°453	5°578
17896	13	9°559	21°580	17970	10	13°791	25°929	18049	24	20°621	1°148	18123	17	19°426	3°657	18197	14	24°527	5°998
17897*	35	10°986	21°702	17971	9	15°606	25°229	18050	25	20°714	1°478	18124	12	19°801	3°254	18198	6	25°764	5°065
17898	7	11°220	21°084	17972	14	15°699	25°225	18051	19	20°900	1°646	18125	18	21°465	3°067	18199	6	25°905	5°262
17899	13	11°394	21°584					18052	19	20°946	1°238	18126	7	21°822	3°190	18200	17	0°336	6°388
17900	6	13°453	21°613					18053	10	21°262	1°520	18127	23	22°035	3°947	18201*	31	0°431	6°427
17901	10	13°602	21°293					18054	14	21°339	1°717	18128	16	22°057	3°074	18202	17	2°123	6°697
17902	8	13°609	21°177					18055	24	22°194	1°079	18129	13	22°328	3°780	18203	18	2°221	6°978
17903	8	14°369	21°480					18056	17	22°558	1°714	18130	7	0°274	4°217	18204	9	2°967	6°932
17904	13	18°020	21°280					18057	22	22°931	1°961	18131	36	1°080	4°421	18205	25	4°116	6°316
17905	8	18°414	21°669					18058	12	23°012	1°305	18132	10	5°944	4°830	18206	16	4°735	6°051
17906	12	18°468	21°443					18059	20	23°264	1°723	18133	15	7°605	4°789	18207	9	4°982	6°644
17907*	15	20°205	21°746					18060	7	23°423	1°628	18134	13	9°117	4°232	18208	8	5°817	6°927
17908	6	20°260	21°842					18061	12	25°179	1°503	18135	8	9°361	4°482	18209	9	7°691	6°742
17909	10	21°489	21°043					18062	21	0°523	2°435	18136	7	9°506	4°782	18210	6	7°948	6°889
17910*	27	21°629	21°933					18063	11	1°816	2°367	18137	6	9°898	4°603	18211	15	8°219	6°468
17911	19	22°426	21°449					18064	23	1°823	2°054	18138	12	11°460	4°717	18212	27	9°226	6°390
17912	18	22°464	21°217					18065	7	4°248	2°238	18139	31	12°175	4°248	18213	11	9°245	6°994
17913	9	22°552	21°666					18066	11	5°479	2°372	18140	16	12°757	4°902	18214	11	10°113	6°917
17914*	23	22°898	21°263					18067	21	5°768	2°767	18141	11	15°928	4°872	18215	8	10°621	6°510
17915	24	1°516	22°877					18068	24	6°824	2°703	18142*	29	16°056	4°233	18216	7	10°794	6°799
17916	11	4°634	22°549					18069	11	7°142	2°815	18143	11	16°301	4°761	18217	13	11°292	6°339
17917	9	6°761	22°893					18070	9	9°903	2°636	18144	5	16°411	4°869	18218	28	11°421	6°552
17918	10	7°250	22°860					18071	12	10°357	2°913	18145	9	17°446	4°329	18219	11	11°714	6°106
17919	18	7°855	22°329					18072	11	10°941	2°569	18146	13	17°506	4°358	18220	25	11°976	6°036
17920	14	9°947	22°325					18073	23	12°266	2°523	18147	9	18°025	4°411	18221	15	14°849	6°175
17921	8	10°326	22°684					18074	7	12°373	2°561	18148	11	18°644	4°152	18222	11	15°103	6°071
17922	10	14°610	22°753					18075	6	15°038	2°452	18149	8	19°476	4°555	18223	26	15°345	6°115
17923	10	14°631	22°940					18076	9	16°352	2°582	18150	27	21°405	4°727	18224	22	16°894	6°134
17924	6	15°176	22°400					18077	7	16°865	2°906	18151*	46	21°448	4°922	18225	7	17°111	6°914
17925	9	15°951	22°612					18078	13	16°970	2°768	18152	9	21°637	4°318	18226	7	17°341	6°566
17926	10	16°448	22°908					18079	16	18°635	2°517	18153	10	21°666	4°141	18227	21	19°174	6°398
17927	16	16°570	22°485					18080	23	19°033	2°245	18154	5	22°756	4°716	18228	14	19°767	6°833
17928	8	19°149	22°540					18081	14	20°583	2°434	18155	26	23°111	4°501	18229	10	19°904	6°005
17929	10	21°600	22°092					18082	13	20°593	2°849	18156	9	25°445	4°555	18230	11	19°909	6°421
17930	12	22°794	22°300					18083	14	20°682	2°452	18157	34	25°561	4°255	18231	6	19°917	6°603
17931	8	23°062	22°587					18084	23	20°871	2°515	18158	17	25°911	4°659	18232	10	20°940	6°117
17932	10	24°459	22°929					18085	22	21°182	2°673	18159	19	0°798	5°914	18233	7	21°324	6°724
17933	9	25°511	22°413					18086	21	22°381	2°599	18160	13	3°742	5°953	18234	7	22°636	6°046
17934*	62	25°600	22°342					18087	8	22°690	2°891	18161	26	3°868	5°764	18235	11	22°847	6°731
17935	9	2°400	23°074					18088	19	23°031	2°537	18162	5	4°332	5°976	18236	12	22°953	6°294
17936	18	9°586	23°839					18089	23	23°074	2°861	18163	5	5°877	5°805	18237	11	23°229	6°423
17937	21	9°911	23°266					18090	23	24°974	2°845	18164	12	6°404	5°067	18238	16	24°057	6°158
17938	11	10°838	23°405																

18246	17	3°991	7°253	18320	26	12°263	8°893	18394	5	21°607	9°853	18468	13	24°026	10°758	18542	26	1°194	12°131
18247	22	4°257	7°934	18321	19	12°454	8°116	18395	13	21°971	9°076	18469	12	24°178	10°093	18543	22	1°331	12°874
18248	19	5°021	7°960	18322	16	12°514	8°678	18396	16	22°311	9°935	18470	5	25°281	10°477	18544	8	1°724	12°697
18249	11	5°282	7°581	18323	7	13°285	8°444	18397	7	22°812	9°381	18471	12	25°502	10°562	18545	12	1°806	12°398
18250	8	6°649	7°999	18324	16	13°373	8°827	18398	8	23°147	9°507	18472	11	25°700	10°886	18546	13	2°575	12°467
18251	10	6°822	7°746	18325	17	13°376	8°756	18399	13	23°581	9°323	18473	9	25°942	10°926	18547	6	2°709	12°293
18252	8	6°871	7°653	18326	5	13°401	8°755	18400	12	23°627	9°755	18474	14	1°056	11°270	18548	15	2°800	12°391
18253	16	7°226	7°661	18327	5	15°300	8°702	18401	11	23°853	9°681	18475	17	1°297	11°727	18549	11	2°984	12°567
18254	24	7°701	7°004	18328	8	16°100	8°033	18402	12	24°042	9°926	18476	12	1°314	11°304	18550	9	2°996	12°633
18255	6	8°577	7°162	18329	11	16°506	8°831	18403	10	24°193	9°875	18477	9	2°266	11°585	18551	10	3°364	12°564
18256	17	8°974	7°483	18330	8	16°789	8°352	18404	8	24°958	9°289	18478	9	2°270	11°168	18552	9	4°273	12°703
18257	17	9°302	7°109	18331	15	18°224	8°066	18405	17	25°045	9°768	18479	8	2°286	11°670	18553	24	5°707	12°311
18258	5	9°584	7°834	18332	7	18°284	8°023	18406	12	25°071	9°921	18480	6	2°320	11°785	18554	12	5°769	12°906
18259	22	10°028	7°893	18333	6	18°596	8°561	18407*	36	25°660	9°845	18481	12	2°360	11°904	18555	9	6°785	12°542
18260	14	10°668	7°279	18334	24	18°876	8°175	18408	13	25°849	9°944	18482	12	2°384	11°506	18556	5	7°054	12°588
18261	12	10°729	7°686	18335	25	19°124	8°969	18409	5	0°178	10°222	18483	8	3°726	11°809	18557	11	7°648	12°793
18262	12	10°916	7°486	18336	27	19°931	8°259	18410	13	1°331	10°483	18484	9	4°555	11°920	18558	20	7°776	12°103
18263	8	11°594	7°780	18337	14	21°146	8°278	18411	14	2°447	10°131	18485	29	5°125	11°104	18559	9	7°804	12°164
18264*	30	12°318	7°401	18338	15	21°723	8°906	18412	13	2°949	10°187	18486	14	5°139	11°885	18560	17	7°856	12°309
18265	13	13°126	7°876	18339	26	22°428	8°947	18413*	43	3°572	10°284	18487	9	6°094	11°214	18561	14	7°893	12°154
18266*	31	13°140	7°371	18340	21	22°554	8°604	18414	9	4°414	10°667	18488	12	6°443	11°258	18562*	32	7°967	12°093
18267	11	13°353	7°364	18341	10	23°337	8°986	18415	14	4°772	10°413	18489	19	7°360	11°092	18563	11	8°332	12°342
18268	12	14°495	7°904	18342	7	23°678	8°787	18416	15	4°865	10°265	18490	14	7°774	11°914	18564	11	8°538	12°896
18269	6	14°672	7°405	18343	6	24°829	8°439	18417	6	5°308	10°023	18491	23	7°834	11°223	18565	12	9°326	12°703
18270	7	15°003	7°801	18344	19	24°987	8°689	18418	19	7°368	10°282	18492	13	8°008	11°234	18566	9	10°511	12°622
18271	15	15°184	7°866	18345	14	25°016	8°081	18419	19	8°346	10°884	18493	7	8°485	11°766	18567	10	11°212	12°758
18272	7	15°635	7°952	18346	10	25°905	8°485	18420	19	8°403	10°233	18494	6	9°267	11°402	18568	12	11°306	12°986
18273	19	17°013	7°485	18347*	37	0°947	9°870	18421*	32	8°911	10°032	18495	12	9°684	11°398	18569	11	11°628	12°171
18274	16	17°722	7°037	18348	22	3°220	9°495	18422	6	9°718	10°924	18496	12	10°175	11°657	18570	9	12°074	12°663
18275	15	18°289	7°078	18349	12	3°588	9°617	18423	31	10°278	10°095	18497	5	11°089	11°079	18571	11	12°193	12°024
18276	6	18°979	7°323	18350	6	3°922	9°134	18424	6	10°402	10°972	18498	14	11°694	11°382	18572*	30	12°203	12°597
18277	7	19°798	7°373	18351	7	4°011	9°085	18425	7	10°846	10°153	18499	21	11°853	11°571	18573	21	12°285	12°500
18278	9	19°826	7°169	18352	14	4°257	9°054	18426	13	12°139	10°798	18500	19	11°953	11°774	18574	16	13°555	12°539
18279	15	19°987	7°202	18353	14	4°838	9°913	18427	5	12°378	10°781	18501	12	12°104	11°431	18575	8	13°618	12°667
18280	11	19°996	7°869	18354	8	5°677	9°488	18428	10	12°534	10°104	18502	13	12°410	11°356	18576	9	13°874	12°385
18281	8	20°407	7°656	18355	6	5°884	9°317	18429	8	12°563	10°621	18503	19	12°625	11°003	18577	7	14°298	12°482
18282	34	20°831	7°170	18356	7	6°009	9°321	18430	5	12°614	10°037	18504	10	12°693	11°764	18578	10	14°685	12°544
18283	9	21°116	7°776	18357	10	6°176	9°054	18431	17	12°621	10°565	18505	19	12°932	11°124	18579	11	14°785	12°436
18284	13	21°598	7°813	18358	12	6°735	9°717	18432	11	12°754	10°834	18506	14	13°416	11°236	18580	21	14°902	12°343
18285	11	22°581	7°949	18359	5	6°816	9°593	18433	27	12°997	10°875	18507	13	13°634	11°239	18581	19	15°146	12°392
18286	7	22°864	7°743	18360	7	6°963	9°022	18434*	27	13°036	10°126	18508	22	13°684	11°512	18582	14	15°221	12°057
18287	9	24°176	7°276	18361	22	7°670	9°152	18435	6	13°100	10°005	18509	14	14°475	11°043	18583	25	15°609	12°497
18288	10	24°274	7°433	18362	14	8°208	9°134	18436	9	13°214	10°746	18510	14	14°571	11°322	18584	17	15°692	12°149
18289	13	24°770	7°993	18363	16	11°011	9°594	18437*	36	13°981	10°015	18511	13	14°620	11°011	18585	11	16°205	12°096
18290	7	24°988	7°624	18364	13	12°154	9°635	18438	13	14°504	10°134	18512	10	14°816	11°583	18586*	29	16°444	12°688
18291	8	25°358	7°526	18365	13	12°366	9°414	18439	17	14°815	10°271	18513*	24	15°000	11°668	18587	7	16°578	12°477
18292	5	25°373	7°864	18366	12	12°445	9°707	18440	15	14°987	10°620	18514	10	15°215	11°579	18588	7	17°083	12°144
18293	9	25°665	7°247	18367	6	13°103	9°230	18441	27	15°565	10°960	18515	22	15°352	11°796	18589	15	17°281	12°958
18294	26	25°766	7°393	18368	11	13°362	9°618	18442	16	15°736	10°471	18516	17	15°420	11°220	18590	14	18°026	12°545
18295	9	25°820	7°475	18369	7	13°952	9°145	18443	9	15°819	10°153	18517	5	16°104	11°245	18591	21	18°035	12°201
18296	32	0°497	8°246	18370	9	14°396	9°526	18444*	21	16°307	10°800	18518	5	16°525	11°181	18592	12	18°473	12°054
18297*	64	0°857	8°067	18371	15	14°730	9°536	18445	10	16°477	10°589	18519	17	16°763	11°274	18593*	27	18°543	12°503
18298*	51	1°918	8°115	18372	14	14°771	9°432	18446*	24	16°524	10°620	18520	22	16°965	11°173	18594	12	18°746	12°324
18299	30	3°692	8°762	18373	13	14°804	9°187	18447	13	16°593	10°125	18521	8	17°041	11°858	18595	19	18°884	12°105
18300	7	3°944	8°278	18374	10	14°897	9°605	18448*	29	17°234	10°709	18522	7	18°289	11°967	18596	26	19°700	12°646
18301	9	4°678	8°514	18375	11	14°936	9°400	18449	9	17°460	10°778	18523	14	19°242	11°588	18597	11	20°009	12°165
18302	15	5°016	8°840	18376	7	14°975	9°348	18450	8	17°963	10°053	18524	20	19°435	11°987	18598	13	20°409	12°229
18303	6	5°925	8°564	18377	16	15°099	9°081	18451	22	19°071	10°591	18525	24	20°984	11°405	18599	12	20°886	12°556
18304	7	6°387	8°108	18378	13	15°293	9°020	18452	11	19°342	10°993	18526	11	21°326	11°821	18600	8	21°222	12°065
18305	7	6°413	8°183	18379	20	16°785	9°698	18453	12	19°395	10°473	18527	10	22°019	11°264	18601	6	21°347	12°624
18306	8	6°571	8°535	18380	6	16°934	9°082	18454	7	19°727	10°054	18528	13	22°083	11°452	18602	9	21°536	12°004
18307	20	6°719	8°223	18381	22	17°212	9°695	18455	14	19°782	10°483	18529	22	22°564	11°785	18603	5	21°831	12°244
18308	13	7°176	8°034	18382	19	18°241	9°729	18456	11	19°927	10°658	18530	24	22°865	11°141	18604	5	2	

18616	6	24°879	12°083	18690	19	2°737	14°061	18764	12	3°934	15°144	18838	12	25°628	15°469	18912	5	5°974	17°606
18617	17	25°560	12°274	18691	11	4°378	14°730	18765*	29	4°061	15°796	18839	24	0°844	16°310	18913	13	5°989	17°128
18618	28	25°804	12°626	18692	6	4°537	14°747	18766	28	5°114	15°459	18840	23	0°909	16°006	18914	27	6°853	17°294
18619	7	0°147	13°094	18693	13	4°603	14°259	18767	13	6°581	15°618	18841*	32	3°463	16°246	18915	12	7°679	17°728
18620	16	0°787	13°650	18694	6	5°212	14°495	18768	12	6°760	15°433	18842	14	3°886	16°761	18916	9	8°181	17°322
18621	14	0°820	13°181	18695	19	5°760	14°156	18769*	36	7°945	15°082	18843	12	4°821	16°879	18917	17	8°390	17°290
18622	6	0°958	13°559	18696	5	7°288	14°169	18770	13	8°006	15°554	18844*	23	5°213	16°838	18918*	34	8°833	17°076
18623	28	0°976	13°338	18697	27	7°626	14°155	18771	14	9°238	15°725	18845	17	5°614	16°857	18919	12	9°368	17°168
18624	10	1°155	13°637	18698	14	8°082	14°878	18772	19	10°684	15°156	18846	13	6°271	16°134	18920	12	9°794	17°593
18625	8	1°663	13°955	18699	8	8°231	14°554	18773	13	10°945	15°077	18847	11	6°932	16°095	18921	7	9°849	17°706
18626	24	1°857	13°252	18700	7	8°944	14°866	18774	22	11°676	15°124	18848	27	8°363	16°628	18922*	31	10°530	17°345
18627	22	2°410	13°449	18701	23	8°974	14°876	18775	7	11°767	15°462	18849	23	8°419	16°217	18923	15	11°234	17°503
18628	16	2°424	13°487	18702	21	9°013	14°211	18776	24	11°781	15°529	18850	14	8°567	16°658	18924	12	11°732	17°443
18629	8	2°821	13°529	18703	11	9°139	14°346	18777	27	13°135	15°196	18851	25	8°699	16°345	18925	9	11°950	17°137
18630	14	3°496	13°970	18704	17	9°873	14°411	18778	18	13°154	15°441	18852	12	9°173	16°794	18926	11	12°116	17°332
18631	14	3°717	13°409	18705	17	10°398	14°435	18779	6	13°466	15°187	18853	7	9°644	16°956	18927	17	12°237	17°544
18632	6	4°178	13°386	18706	24	10°684	14°271	18780	10	13°492	15°958	18854	13	9°659	16°460	18928	9	12°504	17°789
18633*	34	5°171	13°455	18707	12	11°250	14°681	18781	11	13°516	15°180	18855	5	10°163	16°161	18929	10	12°514	17°020
18634	8	5°262	13°308	18708	5	11°294	14°695	18782	5	13°698	15°460	18856	24	10°452	16°208	18930	7	12°676	17°936
18635	23	6°249	13°812	18709	16	11°421	14°659	18783	6	13°744	15°073	18857	17	11°555	16°996	18931	11	13°064	17°803
18636	11	6°574	13°452	18710	15	11°659	14°974	18784	22	13°829	15°965	18858	7	11°596	16°366	18932	11	13°079	17°818
18637	21	6°832	13°381	18711	10	11°708	14°803	18785	14	14°772	15°521	18859	24	11°919	16°536	18933	17	13°608	17°482
18638	8	6°957	13°258	18712	9	12°176	14°242	18786	12	15°074	15°929	18860	11	11°982	16°232	18934	19	13°691	17°141
18639*	37	7°058	13°764	18713	9	12°197	14°341	18787	7	15°428	15°543	18861	10	12°836	16°741	18935	8	13°756	17°290
18640	6	7°296	13°486	18714	8	12°363	14°486	18788	20	15°454	15°177	18862	9	12°973	16°985	18936	17	13°894	17°765
18641	11	7°413	13°560	18715	13	12°414	14°954	18789	8	16°150	15°395	18863	11	13°013	16°980	18937	7	15°121	17°259
18642	14	7°732	13°267	18716	7	12°507	14°408	18790	12	16°478	15°394	18864	5	13°267	16°966	18938	13	15°162	17°952
18643	23	8°340	13°112	18717	8	13°054	14°176	18791	15	16°549	15°672	18865	14	13°633	16°833	18939	14	15°438	17°041
18644	22	9°005	13°248	18718	24	13°173	14°561	18792	8	16°555	15°565	18866	9	13°672	16°999	18940	14	16°171	17°614
18645	27	10°324	13°697	18719	25	13°982	14°398	18793	13	16°574	15°452	18867	8	13°970	16°449	18941	8	16°212	17°530
18646	7	10°353	13°906	18720	8	14°005	14°438	18794	11	16°765	15°226	18868	9	14°603	16°484	18942	7	16°891	17°946
18647	24	10°454	13°737	18721	9	14°353	14°096	18795	22	16°784	15°394	18869	18	14°831	16°485	18943	11	16°934	17°539
18648	8	11°173	13°623	18722	12	14°629	14°750	18796	21	16°913	15°264	18870	14	15°582	16°828	18944	25	17°324	17°906
18649	27	11°517	13°798	18723	13	14°638	14°215	18797	6	17°208	15°769	18871	27	15°611	16°329	18945	16	17°722	17°817
18650	23	12°431	13°716	18724	6	15°077	14°245	18798	11	17°330	15°214	18872	6	15°702	16°084	18946	15	17°954	17°492
18651	16	12°576	13°489	18725	5	15°103	14°849	18799	17	17°956	15°455	18873	6	15°791	16°969	18947	9	18°065	17°958
18652	22	13°499	13°667	18726	9	15°699	14°231	18800	16	18°007	15°946	18874	17	15°853	16°569	18948	17	18°122	17°672
18653	8	13°707	13°961	18727	18	16°856	14°922	18801	8	18°212	15°111	18875	28	16°384	16°601	18949	12	18°666	17°747
18654	6	13°926	13°640	18728	13	17°049	14°994	18802	7	18°260	15°808	18876	24	17°129	16°263	18950	23	18°667	17°945
18655	7	14°476	13°024	18729	23	17°278	14°759	18803	13	18°481	15°812	18877	14	17°736	16°692	18951	17	18°838	17°904
18656	14	14°873	13°762	18730	16	17°355	14°762	18804	19	18°650	15°433	18878	19	18°214	16°436	18952	14	19°133	17°766
18657	24	15°069	13°887	18731	22	17°447	14°152	18805	16	18°680	15°360	18879	31	18°229	16°042	18953	19	19°325	17°911
18658	26	15°478	13°636	18732*	31	17°873	14°039	18806	17	19°142	15°841	18880	24	18°446	16°260	18954	12	19°438	17°340
18659	14	16°003	13°155	18733	14	17°919	14°861	18807	7	19°183	15°982	18881	6	18°551	16°176	18955	23	19°593	17°331
18660	17	16°104	13°063	18734	9	18°034	14°956	18808	19	19°682	15°713	18882	12	18°627	16°948	18956	11	19°824	17°169
18661	21	16°478	13°931	18735	10	18°449	14°538	18809	15	19°789	15°530	18883	25	18°718	16°753	18957	7	20°113	17°812
18662	9	16°568	13°573	18736	18	19°023	14°530	18810	9	19°868	15°332	18884	9	19°207	16°388	18958	6	20°131	17°802
18663	8	16°634	13°574	18737	11	19°214	14°274	18811	14	19°937	15°738	18885	24	19°954	16°457	18959	6	20°551	17°570
18664	15	17°683	13°845	18738	27	19°310	14°926	18812	11	20°114	15°499	18886	11	20°482	16°840	18960	12	20°670	17°915
18665*	27	17°879	13°672	18739	24	19°709	14°338	18813	9	20°231	15°212	18887	24	20°649	16°162	18961	24	20°713	17°555
18666*	36	18°561	13°880	18740	7	19°916	14°195	18814	25	20°252	15°603	18888	13	20°910	16°603	18962*	28	20°944	17°118
18667	9	19°391	13°486	18741*	40	20°118	14°925	18815	8	20°426	15°897	18889	11	21°894	16°022	18963	8	21°345	17°783
18668	22	19°842	13°907	18742	12	20°160	14°584	18816	5	20°657	15°372	18890	5	21°986	16°334	18964	13	21°611	17°288
18669	16	20°057	13°034	18743	17	20°784	14°382	18817	5	20°733	15°082	18891	5	22°719	16°856	18965	6	22°186	17°039
18670	21	20°472	13°223	18744	14	20°793	14°827	18818	12	20°797	15°782	18892	5	22°878	16°964	18966	24	23°563	17°699
18671	22	20°990	13°523	18745	13	20°882	14°726	18819	11	21°016	15°374	18893	25	22°881	16°496	18967	13	23°722	17°102
18672	14	21°155	13°659	18746	12	21°050	14°628	18820	6	21°080	15°666	18894	5	23°094	16°422	18968	10	23°776	17°819
18673	29	21°332	13°542	18747	7	21°484	14°506	18821	5	21°493	15°577	18895	22	23°204	16°088	18969*	27	23°864	17°167
18674	12	22°346	13°217	18748	19	21°733	14°098	18822	13	21°574	15°456	18896	13	23°550	16°092	18970	16	24°741	17°821
18675	6	22°402	13°305	18749	17	22°294	14°123	18823	15	21°657	15°457	18897	12	23°600	16°524	18971	7	25°130	17°252
18676	8	22°829	13°222	18750	13	22°400	14°717	18824	5	22°200	15°391	18898*	28	23°693	16°197	18972	11	25°286	17°871
18677	21	23°021	13°930	18751	28	22°584	14°968	18825	11	22°526	15°092	18899	5	24°152	16°605	18973	5	25°840	17°039

18986	10	5.794	18.175	19060*	44	2.309	19.535	19134	13	8.679	20.585	19208	17	15.454	21.014	19282	5	20.914	22.423
18987	24	5.847	18.509	19061	10	2.581	19.225	19135	18	9.416	20.357	19209	21	15.621	21.677	19283*	51	21.097	22.390
18988	6	6.123	18.056	19062	11	2.936	19.652	19136	10	9.726	20.405	19210	11	15.665	21.289	19284	13	21.555	22.570
18989	24	6.165	18.427	19063	6	2.976	19.381	19137	19	10.473	20.041	19211	25	15.884	21.204	19285	14	21.932	22.517
18990	16	7.261	18.103	19064	26	3.740	19.981	19138	26	10.651	20.288	19212	10	16.315	21.398	19286	21	22.305	22.865
18991	9	7.632	18.603	19065	21	5.227	19.224	19139	12	11.224	20.227	19213	32	16.531	21.330	19287	11	22.724	22.576
18992	14	7.734	18.478	19066	9	6.152	19.979	19140	8	11.264	20.852	19214	14	16.776	21.095	19288	8	22.767	22.702
18993	7	7.864	18.720	19067	14	6.226	19.694	19141	22	11.593	20.613	19215	21	17.054	21.858	19289	13	22.801	22.450
18994	14	8.600	18.086	19068	14	6.235	19.333	19142	13	11.903	20.802	19216	12	17.074	21.026	19290	7	23.016	22.922
18995	6	8.904	18.369	19069	9	7.401	19.805	19143	18	11.904	20.716	19217	7	17.224	21.461	19291	12	23.107	22.239
18996	12	9.168	18.389	19070	11	7.751	19.544	19144*	31	12.280	20.287	19218	12	17.316	21.055	19292	6	23.256	22.802
18997	13	9.267	18.146	19071	10	8.120	19.023	19145	7	12.579	20.375	19219	21	17.411	21.317	19293	29	24.652	22.828
18998	15	10.495	18.927	19072	16	8.953	19.324	19146	13	12.633	20.322	19220	8	17.566	21.226	19294	23	24.773	22.204
18999*	36	11.631	18.572	19073	17	9.236	19.031	19147	6	12.644	20.245	19221	5	17.786	21.646	19295	21	4.052	23.916
19000	5	12.147	18.488	19074	16	10.027	19.292	19148	10	13.005	20.358	19222	21	18.071	21.598	19296	16	4.126	23.047
19001	13	12.649	18.427	19075	5	10.048	19.243	19149	6	13.451	20.823	19223	12	18.083	21.811	19297	6	4.203	23.588
19002	8	13.069	18.352	19076	13	10.229	19.816	19150	12	14.358	20.744	19224	14	18.102	21.836	19298	29	6.196	23.714
19003	24	13.118	18.852	19077	24	10.490	19.859	19151*	38	15.123	20.833	19225	7	18.216	21.109	19299	14	6.766	23.977
19004	21	13.265	18.584	19078	5	10.668	19.829	19152	11	15.219	20.163	19226	15	18.477	21.590	19300	10	7.354	23.870
19005	14	13.445	18.056	19079	10	10.668	19.794	19153	15	15.690	20.332	19227	17	18.764	21.219	19301*	46	8.349	23.771
19006	8	13.589	18.045	19080	6	11.283	19.366	19154	5	15.947	20.549	19228	20	19.121	21.482	19302	8	8.648	23.586
19007	5	13.618	18.715	19081	29	11.494	19.023	19155	7	15.998	20.629	19229	5	19.630	21.147	19303	25	8.913	23.230
19008	12	13.666	18.804	19082	20	11.922	19.461	19156*	34	16.243	20.633	19230	7	19.787	21.004	19304	14	8.924	23.414
19009	13	14.018	18.672	19083*	29	12.100	19.935	19157	21	16.337	20.457	19231	18	19.796	21.483	19305	9	9.478	23.066
19010	14	14.314	18.204	19084	7	12.325	19.552	19158	15	16.565	20.442	19232	5	21.143	21.457	19306	12	9.934	23.405
19011	6	14.437	18.317	19085	17	12.689	19.569	19159	13	16.937	20.387	19233	18	21.181	21.796	19307*	27	10.213	23.402
19012	24	14.736	18.125	19086	12	13.164	19.724	19160	12	17.561	20.798	19234	9	21.747	21.655	19308	23	10.461	23.751
19013	8	15.144	18.266	19087	13	13.289	19.252	19161	24	17.729	20.199	19235	8	22.186	21.932	19309	14	10.574	23.434
19014	15	15.439	18.498	19088	15	13.357	19.453	19162	18	18.040	20.880	19236	19	22.263	21.618	19310	5	10.792	23.758
19015	18	15.443	18.146	19089	7	13.609	19.619	19163	5	18.215	20.772	19237	9	22.747	21.654	19311	5	10.955	23.261
19016	24	15.615	18.544	19090	24	13.668	19.779	19164	7	18.299	20.921	19238	9	24.193	21.247	19312	16	11.304	23.547
19017	10	15.898	18.033	19091	5	13.781	19.802	19165	10	18.418	20.753	19239	14	24.196	21.962	19313	25	11.527	23.501
19018	24	16.094	18.571	19092	13	13.816	19.560	19166	6	18.491	20.359	19240	6	24.208	21.974	19314	14	11.541	23.956
19019	8	17.197	18.683	19093	12	14.377	19.774	19167	10	18.864	20.914	19241	13	24.253	21.065	19315	10	12.520	23.205
19020	5	17.361	18.552	19094	11	14.446	19.226	19168	29	19.264	20.394	19242	14	25.914	21.498	19316	20	12.756	23.701
19021	17	17.649	18.996	19095	22	14.552	19.227	19169	17	19.340	20.353	19243	33	1.259	22.801	19317	5	13.168	23.841
19022	7	17.792	18.431	19096	5	15.045	19.054	19170	9	19.541	20.419	19244	19	1.551	22.049	19318	29	13.176	23.124
19023	22	17.916	18.615	19097	29	15.445	19.073	19171	15	19.541	20.133	19245	13	1.824	22.324	19319	17	13.659	23.162
19024	26	17.987	18.693	19098	8	15.697	19.162	19172	5	19.689	20.216	19246	9	2.368	22.448	19320	12	13.891	23.283
19025	19	18.442	18.264	19099	16	16.068	19.831	19173	9	19.753	20.684	19247	6	2.714	22.923	19321*	49	15.096	23.359
19026	27	18.584	18.280	19100	5	16.590	19.508	19174	24	20.222	20.552	19248	22	3.217	22.634	19322	11	15.294	23.978
19027*	46	18.724	18.095	19101	5	16.617	19.037	19175	5	20.360	20.581	19249	16	4.250	22.103	19323	7	16.122	23.258
19028	5	18.795	18.076	19102	27	16.750	19.018	19176	5	20.448	20.497	19250*	56	4.335	22.030	19324	9	16.565	23.556
19029	6	19.074	18.284	19103*	33	16.754	19.134	19177	30	20.632	20.439	19251	10	5.526	22.172	19325	14	17.071	23.362
19030	6	19.143	18.149	19104	24	16.962	19.138	19178	15	20.786	20.806	19252	13	6.597	22.126	19326	11	17.222	23.344
19031	10	19.171	18.015	19105	11	17.184	19.372	19179	21	22.821	20.679	19253	15	6.876	22.371	19327	18	17.280	23.870
19032	13	19.536	18.520	19106	9	17.912	19.262	19180	24	23.217	20.421	19254	14	7.328	22.052	19328	19	17.576	23.516
19033	24	20.126	18.140	19107	5	18.196	19.828	19181	13	24.796	20.952	19255	13	8.114	22.329	19329	9	17.684	23.860
19034	12	20.616	18.183	19108	13	18.619	19.739	19182	19	24.818	20.096	19256	20	8.117	22.476	19330	7	17.939	23.750
19035	7	20.867	18.032	19109	26	18.676	19.290	19183	7	25.388	20.869	19257	22	8.498	22.411	19331	18	18.223	23.366
19036	6	21.139	18.847	19110	8	19.199	19.913	19184	12	25.715	20.481	19258	14	10.273	22.304	19332	19	18.304	23.532
19037	27	21.426	18.605	19111	10	19.871	19.012	19185	13	0.362	21.867	19259	9	10.904	22.586	19333	9	19.323	23.796
19038	21	21.441	18.938	19112	19	20.918	19.387	19186*	40	0.386	21.709	19260	14	12.466	22.382	19334	26	19.542	23.383
19039	20	21.515	18.219	19113	6	21.045	19.621	19187	28	1.171	21.211	19261	5	12.703	22.772	19335	10	19.581	23.016
19040	7	21.593	18.861	19114	13	21.572	19.667	19188	13	1.299	21.423	19262	36	12.924	22.345	19336	10	19.831	23.479
19041	8	21.725	18.628	19115	22	22.011	19.814	19189*	33	1.633	21.014	19263	14	13.421	22.213	19337	12	19.951	23.373
19042	17	21.726	18.783	19116	7	22.019	19.589	19190	23	5.559	21.804	19264	22	13.659	22.580	19338	10	20.158	23.399
19043	11	21.760	18.415	19117	12	22.241	19.556	19191	7	6.718	21.565	19265	21	13.860	22.556	19339	24	20.224	23.458
19044	16	21.906	18.117	19118	5	23.130	19.499	19192	8	7.200	21.623	19266	21	14.225	22.128	19340	21	20.291	23.479
19045	13	22.687	18.083	19119	6	23.276	19.130	19193	17	9.509	21.628	19267	16	15.718	22.591	19341	23	20.547	23.242
19046	26	22.891	18.594	19120	19	23.419	19.388	19194	20	9.611	21.587	19268	9	16.337	22.057	19342*	24	20.937	23.076
19047	23	23.440	18.096	19121	19	23.426	19.724	19195	13	9.857	21.918	19269	11	16.539	22.559	19343	13	20.968	23

19356	11	24°161	23°274	19430	9	16°559	25°238	19532	9	16°630	0°161	19606	28	12°375	2°772	19680	6	11°877	3°261
19357	24	24°347	23°105	19431	24	16°775	25°512	19533	20	16°685	0°692	19607	13	12°660	2°763	19681	10	11°890	3°530
19358	9	24°398	23°962	19432	13	17°546	25°664	19534	17	16°865	0°032	19608	14	13°165	2°234	19682	14	11°998	3°629
19359	27	24°779	23°415	19433	11	17°707	25°097	19535	13	17°121	0°057	19609	16	13°238	2°996	19683	6	12°006	3°867
19360	14	25°082	23°188	19434	10	17°765	25°305	19536	20	17°947	0°839	19610	22	13°577	2°572	19684	24	12°035	3°206
19361	8	25°292	23°594	19435	9	18°196	25°228	19537	9	18°600	0°278	19611	9	13°882	2°537	19685	13	12°087	3°940
19362	11	25°474	23°072	19436	20	18°346	25°097	19538	11	18°634	0°382	19612	7	13°888	2°897	19686	13	12°304	3°738
19363	18	25°737	23°887	19437	21	18°373	25°264	19539	22	18°696	0°313	19613	24	13°906	2°837	19687	28	12°341	3°443
19364*	120	1°936	24°149	19438	24	18°599	25°343	19540	23	22°688	0°486	19614	28	14°004	2°069	19688	26	12°376	3°568
19365	17	2°826	24°381	19439	27	19°462	25°788	19541	6	24°086	0°421	19615	6	14°080	2°937	19689	6	12°414	3°145
19366	10	2°902	24°592	19440	20	19°503	25°052	19542*	51	24°412	0°902	19616	13	14°194	2°801	19690*	47	12°524	3°446
19367	12	3°253	24°784	19441	16	19°746	25°080	19543*	45	24°429	0°516	19617	14	14°485	2°578	19691	33	12°841	3°734
19368	12	3°828	24°321	19442*	44	20°834	25°662	19544	20	0°465	1°039	19618	11	14°501	2°177	19692	16	13°429	3°852
19369	9	6°782	24°149	19443	30	21°687	25°788	19545	9	0°827	1°670	19619	12	14°707	2°561	19693	23	13°761	3°165
19370	18	9°304	24°058	19444	13	21°696	25°207	19546	14	1°208	1°917	19620	12	15°078	2°393	19694	9	13°860	3°846
19371	9	10°245	24°304	19445	20	22°634	25°773	19547	12	1°543	1°679	19621	8	15°134	2°798	19695	11	13°969	3°530
19372	13	10°624	24°818	19446*	34	23°989	25°074	19548	7	3°457	1°447	19622	18	15°332	2°029	19696	7	14°752	3°161
19373	5	10°662	24°313	19447	25	24°185	25°861	19549	9	4°409	1°482	19623	19	15°507	2°506	19697	11	15°302	3°321
19374	9	11°354	24°598	19448	8	25°184	25°160	19550	6	4°696	1°165	19624	12	16°528	2°507	19698	14	15°462	3°306
19375	10	11°602	24°741	19449	13	25°465	25°705	19551	25	6°257	1°621	19625	9	16°692	2°788	19699	34	15°947	3°167
19376	10	13°039	24°949					19552	23	8°053	1°541	19626	14	16°702	2°810	19700	8	17°676	3°076
19377	13	13°117	24°268					19553	7	8°592	1°384	19627	7	17°480	2°911	19701	13	17°811	3°686
19378	11	13°177	24°074					19554	6	8°860	1°870	19628	14	17°996	2°074	19702	14	17°986	3°422
19379	29	13°284	24°683					19555	6	9°437	1°440	19629	12	19°332	2°340	19703	11	18°597	3°743
19380	14	13°799	24°211					19556	32	9°684	1°994	19630	11	19°514	2°478	19704	11	18°784	3°185
19381	26	14°628	24°463					19557	31	9°822	1°885	19631	16	22°031	2°844	19705	10	19°392	3°155
19382	19	14°910	24°771					19558	12	10°116	1°532	19632	20	22°716	2°270	19706	20	20°404	3°908
19383	14	15°101	24°040					19559	27	10°263	1°265	19633	26	22°965	2°907	19707	5	20°978	3°853
19384	15	15°480	24°828					19560	10	10°573	1°192	19634	19	22°997	2°761	19708	12	21°382	3°982
19385	8	15°916	24°747					19561	22	12°058	1°532	19635	7	23°585	2°849	19709	12	23°619	3°778
19386	13	16°151	24°073					19562	21	12°371	1°921	19636	12	24°062	2°401	19710	8	23°804	3°902
19387	11	16°528	24°600					19563	13	12°536	1°024	19637	10	25°564	2°795	19711	19	1°406	4°459
19388	25	16°606	24°443					19564	25	13°658	1°305	19638	8	25°799	2°834	19712	6	3°739	4°496
19389	12	16°616	24°132					19565	8	13°753	1°120	19639	23	25°826	2°369	19713	32	3°855	4°199
19390	25	16°761	24°038					19566	18	13°919	1°127	19640	15	0°325	3°911	19714	13	4°210	4°600
19391	24	17°096	24°195					19567	10	14°822	1°958	19641	10	0°340	3°034	19715	8	4°347	4°443
19392	8	17°266	24°135					19568	6	15°139	1°728	19642	27	5°485	3°456	19716	11	4°473	4°592
19393	13	17°882	24°053					19569	9	16°099	1°676	19643	16	6°376	3°498	19717*	35	4°578	4°530
19394	11	18°155	24°021					19570	22	17°014	1°194	19644	13	6°579	3°441	19718	16	4°882	4°795
19395	8	18°288	24°394					19571	19	18°437	1°353	19645	36	6°946	3°112	19719	8	5°632	4°882
19396	18	18°632	24°308					19572	6	18°566	1°651	19646	26	7°231	3°630	19720	18	5°918	4°740
19397	9	18°666	24°125					19573	27	21°340	1°512	19647	12	8°029	3°915	19721	9	5°946	4°537
19398	11	19°303	24°992					19574	12	0°659	2°557	19648	14	8°197	3°760	19722	15	6°760	4°926
19399	14	19°330	24°154					19575	13	1°314	2°494	19649	15	8°489	3°075	19723	16	6°777	4°340
19400	5	19°668	24°569					19576	17	1°362	2°819	19650	14	8°560	3°690	19724	9	6°795	4°794
19401	21	19°848	24°920					19577	18	3°258	2°791	19651	12	8°862	3°639	19725	5	7°245	4°393
19402	22	19°927	24°226					19578	14	3°686	2°783	19652	10	8°909	3°990	19726	13	7°569	4°186
19403	14	20°451	24°910					19579	32	4°038	2°384	19653	8	8°937	3°860	19727	7	8°068	4°810
19404	7	21°116	24°599					19580	14	4°872	2°396	19654	9	9°155	3°864	19728	23	8°157	4°273
19405*	44	21°213	24°195					19581	18	5°450	2°571	19655	5	9°364	3°393	19729	21	8°313	4°760
19406	10	22°042	24°007					19582	7	5°822	2°972	19656	14	9°474	3°384	19730	14	8°544	4°967
19407	9	22°571	24°228					19583	15	6°492	2°160	19657	30	9°526	3°192	19731	22	8°642	4°014
19408	5	23°390	24°207					19584	27	6°564	2°567	19658	23	9°567	3°710	19732	13	8°754	4°675
19409	7	23°756	24°951					19585	14	6°586	2°076	19659	12	9°585	3°807	19733	29	8°756	4°760
19410	8	25°109	24°137					19586	21	6°923	2°349	19660	28	9°700	3°479	19734	24	8°757	4°836
19411	9	1°148	25°622					19587	24	6°934	2°817	19661	27	9°988	3°492	19735	11	8°826	4°601
19412	6	5°423	25°218					19588	13	7°460	2°548	19662	17	9°994	3°893	19736	15	8°834	4°553
19413	12	6°127	25°692					19589	11	7°502	2°921	19663	10	10°163	3°591	19737	13	8°855	4°984
19414	5	7°778	25°566					19590	20	7°719	2°870	19664	5	10°517	3°462	19738	18	9°066	4°213
19415	7	7°897	25°182					19591	29	7°978	2°760	19665	12	10°559	3°957	19739	6	9°082	4°150
19416	12	8°897	25°051					19592	7	8°439	2°645	19666	24	10°601	3°812	19740	11	9°176	4°946
19417	13	8°910	25°571					19593	23	10°066	2°467	19667	26	10°605	3°504	19741	16	9°225	4°429
19418	12	10°696	25°634					19594	6	10°570	2°703	19668	12	10°610	3°696	19742	7	9°226	4°496
19419	11	11°801	25°969					19595	14	11°099	2°217	19669	27	10°697	3°524	19743	21	9°292	4°403
19420	11	11°839	25°505					19596	10	11°390	2°611	19670	26	10°912	3°769	19744	24	9°369	4°112
19421	32	14°091	25°385					19597	22	11°447	2°871	19671	16	10°945	3°846	19745	28	9°463	4°415
19422	23	14°522	25°673					19598	18	11°651	2°123	19672	27	10°968	3°939	19746	16	9°484	4°650
19423	24	14°849	25°408					19599	19	11°687	2°481	19673	17	10°993	3°412	19747	22	9°562	4°056
19424	32	14°920	25°815																

19754	20	9°06	4°035	19828	27	8°985	5°098	19902	26	16°419	5°643	19976	24	23°936	6°585	20050	6	10°309	8°739
19755	15	9°30	4°775	19829	13	9°194	5°165	19903	25	16°594	5°159	19977	23	24°523	6°436	20051	7	10°330	8°462
19756	19	9°84	4°290	19830	11	9°310	5°422	19904*	54	17°175	5°988	19978	12	24°966	6°917	20052	16	10°750	8°450
19757	12	10°041	4°454	19831	29	9°331	5°640	19905	15	17°422	5°522	19979	11	25°504	6°835	20053	7	10°765	8°826
19758	30	10°302	4°019	19832	13	9°346	5°322	19906	14	17°843	5°693	19980	8	25°715	6°730	20054	36	11°054	8°267
19759	14	10°309	4°271	19833	14	9°387	5°126	19907	13	19°750	5°294	19981	9	3°087	7°942	20055	18	11°631	8°501
19760	21	10°483	4°966	19834	23	9°473	5°568	19908	11	23°613	5°251	19982	23	4°080	7°336	20056	9	11°915	8°472
19761	24	10°551	4°022	19835	27	9°496	5°870	19909	24	25°356	5°985	19983	8	4°619	7°524	20057	14	12°020	8°779
19762	18	10°614	4°500	19836	14	9°647	5°581	19910	11	2°363	6°109	19984*	33	4°643	7°328	20058*	32	12°798	8°292
19763	23	10°790	4°548	19837	19	9°704	5°055	19911	18	3°712	6°010	19985	16	4°716	7°094	20059	11	13°649	8°252
19764	8	10°872	4°331	19838	12	9°745	5°936	19912	16	4°181	6°385	19986	12	5°162	7°750	20060	8	14°939	8°669
19765	25	10°992	4°355	19839	24	9°869	5°113	19913	13	4°247	6°265	19987	6	5°388	7°331	20061	8	15°365	8°154
19766	32	11°030	4°900	19840	6	9°947	5°442	19914	23	4°990	6°769	19988	12	7°127	7°626	20062	22	15°808	8°397
19767	16	11°047	4°319	19841	24	9°984	5°261	19915	6	5°519	6°581	19989	21	7°221	7°524	20063	13	16°360	8°218
19768	14	11°076	4°413	19842	22	10°058	5°661	19916	6	5°586	6°369	19990	6	7°919	7°801	20064	12	16°667	8°694
19769	14	11°100	4°387	19843*	43	10°094	5°150	19917	6	6°130	6°005	19991	29	8°234	7°848	20065	8	17°192	8°133
19770	23	11°196	4°695	19844	26	10°144	5°583	19918	11	6°245	6°513	19992	14	8°439	7°342	20066	24	18°215	8°787
19771	5	11°275	4°123	19845	24	10°231	5°230	19919	27	6°408	6°541	19993	17	8°473	7°512	20067	5	18°485	8°740
19772	19	11°288	4°932	19846	17	10°263	5°682	19920	19	7°702	6°269	19994	13	9°005	7°546	20068	13	19°429	8°093
19773	9	11°384	4°134	19847	28	10°289	5°213	19921	18	7°771	6°031	19995	12	9°727	7°964	20069	11	20°976	8°796
19774	32	11°401	4°547	19848	25	10°347	5°325	19922	8	7°784	6°923	19996	17	10°613	7°752	20070	8	23°019	8°566
19775	16	11°411	4°749	19849	17	10°382	5°213	19923	23	8°302	6°647	19997	6	10°959	7°313	20071	16	23°443	8°886
19776	11	11°416	4°742	19850	14	10°409	5°151	19924	12	8°432	6°392	19998*	37	11°138	7°809	20072	22	25°075	8°704
19777	10	11°520	4°559	19851	13	10°486	5°487	19925	19	8°493	6°419	19999	8	11°161	7°213	20073	17	25°934	8°819
19778	6	11°619	4°227	19852	27	10°602	5°343	19926	22	8°518	6°260	20000	11	11°173	7°458	20074	10	0°636	9°897
19779	16	11°693	4°838	19853	13	10°668	5°492	19927	9	8°579	6°702	20001	14	11°902	7°394	20075	16	1°475	9°986
19780	9	11°822	4°769	19854	22	10°698	5°572	19928	16	8°956	6°656	20002	9	11°953	7°863	20076	7	1°904	9°281
19781	24	11°823	4°925	19855	24	10°720	5°521	19929	30	9°023	6°217	20003	21	12°254	7°126	20077	6	1°955	9°709
19782	8	11°837	4°094	19856	14	10°828	5°927	19930	19	9°622	6°494	20004	16	12°511	7°432	20078	5	2°182	9°635
19783	25	11°987	4°749	19857	27	10°832	5°712	19931	31	9°798	6°037	20005	13	13°037	7°660	20079	6	2°368	9°878
19784	16	12°104	4°741	19858	34	10°957	5°872	19932	29	9°811	6°835	20006	14	13°113	7°839	20080	14	3°374	9°714
19785	13	12°112	4°023	19859*	38	10°967	5°976	19933	14	10°067	6°497	20007	16	13°410	7°501	20081	7	3°401	9°869
19786	17	12°491	4°226	19860	30	11°089	5°262	19934	15	10°216	6°886	20008	17	13°884	7°002	20082*	33	3°989	9°787
19787	24	13°332	4°406	19861	10	11°110	5°961	19935	24	10°647	6°711	20009	21	14°097	7°018	20083	12	4°177	9°886
19788	27	13°506	4°558	19862	22	11°183	5°562	19936	7	10°749	6°232	20010	11	14°153	7°166	20084	11	4°513	9°245
19789	9	13°908	4°786	19863	25	11°192	5°274	19937	11	11°048	6°601	20011	32	14°208	7°344	20085	12	4°744	9°730
19790	13	13°946	4°534	19864	12	11°325	5°695	19938	7	11°234	6°082	20012	13	14°317	7°682	20086	10	5°153	9°965
19791	16	14°402	4°625	19865	12	11°343	5°936	19939	16	11°328	6°749	20013	18	16°498	7°561	20087	8	5°804	9°136
19792	9	14°652	4°649	19866	11	11°411	5°251	19940	15	11°363	6°433	20014	22	16°512	7°359	20088	18	5°930	9°689
19793	10	14°791	4°680	19867	21	11°412	5°713	19941	17	11°424	6°006	20015	16	17°261	7°622	20089	10	6°114	9°293
19794	14	15°356	4°366	19868	12	11°429	5°149	19942	20	11°582	6°734	20016	22	17°777	7°886	20090	13	6°293	9°520
19795	21	15°630	4°958	19869	30	11°451	5°410	19943	20	11°767	6°533	20017	14	18°592	7°359	20091	13	6°406	9°106
19796	7	15°914	4°056	19870	19	11°491	5°262	19944	8	11°876	6°670	20018	10	20°223	7°888	20092	14	6°779	9°501
19797	19	16°066	4°139	19871	7	11°574	5°958	19945	7	12°215	6°397	20019	14	20°883	7°856	20093	6	7°651	9°270
19798	10	16°325	4°375	19872	6	11°582	5°640	19946	12	12°283	6°786	20020	12	22°149	7°358	20094	8	8°055	9°953
19799	6	16°774	4°661	19873	23	11°712	5°541	19947	13	12°601	6°882	20021	12	22°402	7°836	20095	6	8°087	9°785
19800	7	16°919	4°763	19874	22	11°931	5°392	19948	12	12°810	6°269	20022	29	23°036	7°467	20096	14	8°334	9°865
19801	6	16°937	4°624	19875	13	12°026	5°023	19949	21	13°496	6°334	20023	6	23°589	7°089	20097	6	8°852	9°553
19802	12	17°773	4°819	19876	11	12°487	5°678	19950	11	14°034	6°408	20024	18	24°514	7°642	20098	12	9°234	9°354
19803	18	18°750	4°654	19877	30	12°511	5°168	19951	13	14°039	6°683	20025	19	0°749	8°909	20099	14	9°249	9°171
19804	9	18°941	4°360	19878	9	12°635	5°881	19952	19	14°830	6°280	20026	13	0°872	8°566	20100	13	10°117	9°384
19805	7	22°281	4°080	19879	24	12°696	5°347	19953	27	15°082	6°897	20027	13	3°305	8°635	20101	5	10°395	9°929
19806	9	22°567	4°088	19880	21	13°043	5°682	19954	13	15°351	6°599	20028	12	3°334	8°028	20102	26	10°547	9°080
19807	21	23°011	4°449	19881	13	13°143	5°906	19955	15	15°374	6°007	20029	7	4°227	8°426	20103	5	10°641	9°163
19808	13	23°152	4°866	19882	12	13°258	5°052	19956	11	15°887	6°353	20030	8	4°532	8°433	20104	23	10°681	9°030
19809	12	23°633	4°559	19883	11	13°543	5°665	19957	13	16°124	6°470	20031	26	5°326	8°546	20105	7	10°968	9°372
19810	29	24°323	4°659	19884	26	13°613	5°823	19958	6	16°819	6°701	20032	12	5°873	8°312	20106	13	11°196	9°324
19811	5	25°538	4°558	19885	25	13°732	5°397	19959	12	16°970	6°576	20033	12	6°015	8°877	20107	16	11°252	9°166
19812	22	2°754	5°526	19886	5	13°764	5°924	19960	11	17°236	6°986	20034	10	6°051	8°221	20108	25	11°654	9°640
19813	10	2°833	5°948	19887	6	13°837	5°826	19961	9	17°472	6°214	20035	16	7°236	8°524	20109	13	11°846	9°173
19814	13	4°694	5°225	19888	6	14°049	5°928	19962	12	17°700	6°884	20036	15	7°275	8°355	20110	8	12°326	9°978
19815	19	6°055	5°119	19889	20	14°069	5°364	19963	14	17°981	6°471	20037	16	7°370	8°546	20111	23	12°762	9°334
19816	10	6°518	5°752	19890	8	14°336	5°434	19964	15	18°376	6°647	20038	25	7°650	8°140	20112	8	12°920	9°768
19817	13	6°874	5°241	19891	12	14°351	5°112	19965	9	18°549	6°606	20039</							

20124	20	18'977	9'498	20198	13	8'198	11'836	20272	14	24'781	12'718	20346	7	4'806	14'278	20420	20	25'187	15'624
20125	14	19'580	9'242	20199	21	10'285	11'025	20273	18	25'339	12'926	20347	8	4'911	14'059	20421	22	25'362	15'196
20126	14	20'007	9'249	20200	10	11'301	11'537	20274	6	0'692	13'181	20348	14	5'098	14'445	20422	10	25'629	15'651
20127	15	20'216	9'834	20201	15	11'823	11'265	20275	14	1'375	13'889	20349	6	5'703	14'831	20423	11	25'730	15'254
20128	13	20'547	9'665	20202	13	12'040	11'784	20276	9	1'539	13'314	20350	15	6'576	14'910	20424	19	1'249	16'457
20129	10	20'744	9'294	20203	21	12'890	11'827	20277	17	2'578	13'311	20351	16	7'127	14'098	20425	16	1'571	16'046
20130	11	21'023	9'013	20204	18	13'372	11'018	20278	7	2'954	13'256	20352	22	7'948	14'930	20426	8	1'914	16'050
20131	8	21'176	9'258	20205	29	13'527	11'308	20279	10	3'671	13'741	20353	16	8'289	14'690	20427	7	1'973	16'480
20132	22	21'860	9'269	20206	19	13'646	11'923	20280	16	3'886	13'790	20354	10	11'517	14'567	20428*	26	2'062	16'152
20133	6	22'491	9'288	20207	14	13'787	11'660	20281	13	4'692	13'258	20355	20	12'850	14'096	20429	9	4'473	16'851
20134	13	22'946	9'289	20208*	47	15'841	11'493	20282	11	4'746	13'779	20356	13	13'447	14'637	20430	13	4'966	16'846
20135*	32	22'952	9'128	20209	32	15'842	11'508	20283	15	4'800	13'283	20357	14	14'032	14'438	20431	12	5'134	16'846
20136	21	24'047	9'519	20210	11	18'018	11'727	20284	12	5'372	13'407	20358	12	14'173	14'909	20432	16	5'402	16'013
20137	27	25'476	9'890	20211	28	18'364	11'398	20285	24	5'491	13'879	20359	9	14'807	14'295	20433	14	5'542	16'726
20138	19	0'285	10'448	20212	18	18'625	11'383	20286	7	5'578	13'244	20360	12	15'976	14'944	20434	11	6'410	16'889
20139	14	0'721	10'582	20213	5	18'927	11'729	20287	10	6'077	13'475	20361	8	16'170	14'718	20435	7	6'968	16'083
20140	8	2'361	10'710	20214	14	19'696	11'748	20288	8	6'107	13'382	20362	27	17'665	14'492	20436	8	7'445	16'390
20141	8	2'508	10'044	20215	11	19'871	11'792	20289	14	6'821	13'286	20363	10	19'562	14'668	20437	11	8'726	16'729
20142	9	3'835	10'507	20216	13	19'893	11'476	20290	14	6'994	13'728	20364	7	20'550	14'002	20438	14	9'680	16'595
20143	10	4'034	10'826	20217	16	20'290	11'691	20291	7	7'024	13'733	20365	6	20'562	14'809	20439	13	9'817	16'811
20144	15	4'866	10'013	20218	8	20'472	11'740	20292	11	7'510	13'741	20366	10	21'012	14'999	20440	21	13'311	16'943
20145	11	5'239	10'781	20219	11	20'751	11'326	20293	9	7'581	13'703	20367	11	21'400	14'078	20441	6	14'693	16'474
20146	14	5'373	10'174	20220	7	20'771	11'060	20294	12	8'304	13'123	20368	7	23'449	14'211	20442	13	14'978	16'892
20147	9	5'498	10'790	20221	11	21'254	11'373	20295	17	8'419	13'865	20369	11	23'540	14'794	20443	19	15'503	16'258
20148	9	5'919	10'281	20222	12	21'542	11'921	20296	13	8'553	13'017	20370	9	23'642	14'578	20444	12	15'777	16'362
20149	12	5'922	10'064	20223	9	21'781	11'489	20297	11	8'602	13'790	20371	13	23'872	14'541	20445	11	16'342	16'155
20150	14	6'687	10'252	20224	11	23'703	11'037	20298	25	8'776	13'901	20372	9	25'040	14'066	20446	9	16'670	16'868
20151	11	6'932	10'734	20225	14	23'980	11'432	20299	8	9'731	13'108	20373	10	25'716	14'248	20447	7	17'948	16'146
20152	13	7'245	10'833	20226	9	24'457	11'364	20300	14	9'745	13'829	20374	9	0'017	15'424	20448	13	20'235	16'745
20153	25	7'557	10'796	20227	19	0'404	12'561	20301	6	9'782	13'197	20375	7	0'994	15'202	20449	9	22'178	16'499
20154	13	7'749	10'415	20228	12	1'652	12'094	20302	14	10'181	13'478	20376	9	1'430	15'529	20450	17	23'293	16'519
20155	12	7'925	10'747	20229	8	1'994	12'043	20303	7	10'703	13'470	20377	8	1'523	15'694	20451	26	25'470	16'744
20156	13	8'406	10'079	20230	23	2'107	12'459	20304	7	10'800	13'522	20378	19	2'356	15'735	20452*	33	25'869	16'064
20157	5	8'679	10'807	20231	8	3'020	12'893	20305	10	11'527	13'075	20379	16	2'370	15'676	20453	18	1'937	17'654
20158	8	9'077	10'215	20232	13	3'903	12'218	20306	23	11'743	13'613	20380	15	2'409	15'131	20454	8	2'097	17'058
20159	18	10'055	10'503	20233	12	3'932	12'953	20307	16	11'904	13'721	20381	13	3'824	15'252	20455	6	2'153	17'773
20160	13	10'353	10'789	20234	24	4'149	12'569	20308	11	12'458	13'909	20382	11	3'993	15'412	20456*	23	2'239	17'121
20161	6	10'489	10'898	20235	9	5'645	12'483	20309	8	13'119	13'718	20383	8	4'404	15'703	20457	7	3'084	17'982
20162	13	10'867	10'559	20236	7	6'209	12'232	20310	22	13'368	13'079	20384	13	4'595	15'859	20458	13	3'121	17'770
20163	9	11'239	10'839	20237	23	6'216	12'207	20311*	27	13'390	13'441	20385	19	5'092	15'078	20459	8	3'664	17'817
20164	16	12'583	10'194	20238	12	6'409	12'732	20312	22	13'583	13'183	20386	14	6'194	15'322	20460	9	4'223	17'174
20165	12	13'243	10'866	20239	7	7'899	12'442	20313	8	14'654	13'047	20387	20	6'605	15'237	20461	12	4'602	17'582
20166	9	13'923	10'595	20240	24	7'916	12'958	20314	9	14'718	13'045	20388	15	6'841	15'503	20462	13	4'994	17'131
20167	11	14'327	10'661	20241	24	7'989	12'297	20315	13	15'314	13'794	20389	7	7'374	15'789	20463	7	6'381	17'359
20168	7	16'045	10'704	20242	8	8'239	12'248	20316	20	16'159	13'421	20390	18	7'887	15'368	20464	15	6'402	17'620
20169	6	16'295	10'223	20243	11	9'270	12'638	20317	14	17'026	13'545	20391	13	7'943	15'375	20465	17	6'859	17'409
20170	13	16'653	10'587	20244	14	9'676	12'269	20318*	43	17'160	13'045	20392	9	8'053	15'350	20466	6	7'452	17'921
20171	10	16'816	10'928	20245	6	10'106	12'409	20319	17	17'303	13'420	20393	10	8'133	15'013	20467	23	8'064	17'979
20172	10	17'150	10'787	20246	26	10'498	12'704	20320	7	17'589	13'396	20394	12	8'294	15'518	20468	6	8'460	17'185
20173	12	18'045	10'720	20247	18	10'714	12'072	20321	27	17'746	13'861	20395	15	8'528	15'819	20469	19	10'486	17'292
20174	9	18'975	10'562	20248	11	11'007	12'549	20322	18	19'167	13'588	20396	28	8'692	15'028	20470	13	10'967	17'027
20175	24	19'697	10'371	20249	6	11'536	12'753	20323	14	19'587	13'996	20397	8	9'946	15'014	20471	11	11'096	17'420
20176	19	19'876	10'210	20250	12	12'022	12'072	20324	11	19'633	13'318	20398	13	9'957	15'556	20472	14	13'341	17'338
20177	12	20'491	10'185	20251	26	12'446	12'017	20325	9	20'275	13'436	20399	20	10'168	15'632	20473	16	13'517	17'019
20178	10	20'992	10'627	20252	23	12'712	12'023	20326	13	20'632	13'497	20400	12	10'387	15'906	20474	14	13'553	17'628
20179	12	21'803	10'878	20253	11	12'932	12'027	20327	24	21'404	13'644	20401	20	10'559	15'003	20475	12	14'534	17'281
20180	11	22'368	10'102	20254	23	14'690	12'199	20328	17	21'780	13'939	20402	9	11'095	15'942	20476	8	14'609	17'662
20181	18	23'076	10'883	20255	12	15'286	12'630	20329	16	21'908	13'936	20403	7	12'879	15'347	20477	21	14'835	17'165
20182	9	25'366	10'563	20256	10	15'627	12'019	20330	11	23'017	13'945	20404	14	13'385	15'072	20478	7	14'858	17'529
20183	8	0'422	11'415	20257	12	15'928	12'438	20331	13	23'318	13'641	20405	17	14'757	15'781	20479	19	15'032	17'149
20184	18	0'903	11'746	20258	14	16'249	12'927	20332	17	23'785	13'045	20406*	30	16'800	15'272	20480	14	15'621	17'499
20185	21	1'199	11'103	20259	7	18'148	12'358	20333	13	24'607	13'796	20407	9	17'464	15'283	20481	25	15'664	17'458
20186	11	1'245	11'203	20260	8	18'263	12												

20494	13	21°8'28"	17°43'1"	20568	9	14°26'5"	19°8'05"	20642	12	6°7'79"	21°48'7"	20716	17	11°7'58"	23°19'5"
20495*	37	21°9'51"	17°24'1"	20569	6	14°3'44"	19°8'14"	20643	6	6°8'42"	21°5'74"	20717	11	12°2'59"	23°24'0"
20496	9	23°9'62"	17°26'9"	20570	13	14°9'94"	19°19'6"	20644	8	7°7'57"	21°3'07"	20718	13	12°3'42"	23°14'7"
20497	17	24°3'40"	17°8'98"	20571	13	15°0'76"	19°0'94"	20645	13	8°0'91"	21°4'03"	20719	8	14°4'44"	23°2'00"
20498	23	24°7'65"	17°7'56"	20572	21	15°1'01"	19°2'25"	20646	12	9°2'76"	21°4'59"	20720	7	14°5'71"	23°1'98"
20499	28	25°3'31"	17°8'19"	20573	14	15°3'12"	19°9'10"	20647	21	10°6'72"	21°9'37"	20721	8	15°0'16"	23°5'92"
20500	11	0°1'06"	18°7'49"	20574	21	15°7'90"	19°8'08"	20648	9	10°7'91"	21°6'82"	20722	13	15°4'49"	23°4'84"
20501	8	0°2'91"	18°0'83"	20575	7	15°9'17"	19°8'06"	20649	14	10°8'52"	21°4'67"	20723	12	17°2'44"	23°3'80"
20502	19	1°2'72"	18°5'52"	20576*	30	16°6'46"	19°5'65"	20650	20	11°1'38"	21°6'23"	20724	7	19°7'63"	23°0'72"
20503	18	1°8'17"	18°0'53"	20577	21	16°6'68"	19°0'34"	20651	14	13°5'75"	21°8'57"	20725	15	19°9'86"	23°2'61"
20504	8	2°1'36"	18°2'83"	20578	16	16°8'34"	19°9'52"	20652	7	15°4'22"	21°6'52"	20726	16	23°3'10"	23°4'10"
20505	18	2°2'87"	18°8'75"	20579	8	17°2'19"	19°7'52"	20653	12	15°7'42"	21°4'39"	20727	8	23°7'62"	23°1'00"
20506	6	2°8'07"	18°0'70"	20580	14	17°3'25"	19°1'79"	20654	16	17°1'38"	21°5'48"	20728	10	24°0'19"	23°6'82"
20507	22	3°5'08"	18°2'92"	20581*	23	17°4'08"	19°2'32"	20655	19	17°1'50"	21°0'79"	20729	14	24°1'54"	23°5'14"
20508	21	3°9'21"	18°5'40"	20582	20	18°0'59"	19°4'92"	20656	6	17°2'97"	21°0'20"	20730	12	25°1'11"	23°2'48"
20509	8	4°1'69"	18°6'34"	20583	9	18°8'50"	19°4'18"	20657	6	17°5'51"	21°7'47"	20731	17	25°3'45"	23°8'23"
20510	10	6°4'57"	18°2'28"	20584	25	19°0'63"	19°9'31"	20658	10	18°0'37"	21°0'50"	20732	11	6°9'62"	24°6'08"
20511	10	7°2'94"	18°4'73"	20585	14	19°1'96"	19°2'43"	20659	11	19°3'60"	21°6'38"	20733	13	8°3'08"	24°1'32"
20512*	37	7°3'66"	18°2'77"	20586	13	22°2'04"	19°0'70"	20660*	34	20°0'97"	21°3'00"	20734	6	8°5'69"	24°7'95"
20513	16	7°9'89"	18°3'02"	20587	12	22°4'08"	19°6'06"	20661	9	20°1'32"	21°8'39"	20735*	39	8°6'07"	24°4'12"
20514	9	8°0'34"	18°5'12"	20588	14	22°6'12"	19°4'44"	20662	12	20°4'39"	21°1'79"	20736	6	9°9'03"	24°0'66"
20515	8	9°5'33"	18°3'40"	20589	16	22°8'49"	19°5'02"	20663*	32	22°1'42"	21°2'02"	20737	14	9°9'21"	24°9'75"
20516	18	10°0'17"	18°2'45"	20590	13	22°9'24"	19°0'59"	20664	7	22°2'59"	21°8'42"	20738	8	10°0'96"	24°0'53"
20517*	37	10°1'99"	18°8'85"	20591	20	23°3'57"	19°3'60"	20665	14	0°7'12"	22°8'31"	20739	15	10°1'90"	24°6'98"
20518	14	13°2'87"	18°8'76"	20592	11	25°2'86"	19°0'26"	20666	6	1°2'08"	22°4'13"	20740	17	10°9'46"	24°2'61"
20519*	16	13°6'16"	18°8'65"	20593	14	1°2'17"	20°6'39"	20667	24	3°0'59"	22°7'78"	20741	22	11°1'20"	24°5'76"
20520	8	13°6'16"	18°9'18"	20594	16	1°6'09"	20°3'81"	20668	16	3°1'77"	22°1'53"	20742	11	12°3'40"	24°1'38"
20521	11	13°6'24"	18°9'46"	20595	7	3°1'94"	20°9'00"	20669	23	4°5'27"	22°4'69"	20743	8	13°5'78"	24°6'20"
20522	9	14°2'48"	18°9'41"	20596	14	3°2'50"	20°0'44"	20670	7	4°5'71"	22°3'59"	20744	10	13°6'24"	24°2'45"
20523	7	14°6'28"	18°9'28"	20597	7	4°1'11"	20°4'24"	20671	8	5°8'41"	22°0'22"	20745	13	13°6'97"	24°7'69"
20524	10	15°0'34"	18°9'03"	20598	14	5°1'78"	20°5'01"	20672	23	6°4'68"	22°7'12"	20746	13	14°5'76"	24°9'86"
20525	6	16°0'99"	18°9'98"	20599	15	6°3'24"	20°9'94"	20673	22	7°2'42"	22°6'61"	20747	17	14°6'32"	24°2'55"
20526*	28	16°1'11"	18°9'32"	20600	13	6°3'86"	20°6'47"	20674	21	7°7'58"	22°1'28"	20748	8	14°7'64"	24°2'65"
20527	6	16°5'18"	18°5'43"	20601	24	7°1'23"	20°3'78"	20675	16	7°9'16"	22°3'51"	20749	10	15°2'06"	24°7'37"
20528	7	16°7'89"	18°9'24"	20602	7	8°1'71"	20°4'52"	20676	23	7°9'22"	22°2'00"	20750	12	15°3'11"	24°0'61"
20529	6	16°8'19"	18°7'83"	20603	9	8°3'74"	20°3'19"	20677	13	7°9'68"	22°6'38"	20751	8	15°3'98"	24°9'64"
20530	14	17°1'73"	18°9'16"	20604*	34	9°1'57"	20°7'04"	20678	12	8°1'90"	22°8'67"	20752*	37	15°8'53"	24°1'29"
20531	16	17°3'53"	18°3'32"	20605*	34	9°5'25"	20°5'79"	20679	7	9°8'29"	22°3'61"	20753	21	17°1'14"	24°8'94"
20532	16	17°7'98"	18°8'15"	20606	22	9°5'53"	20°8'84"	20680	15	10°2'66"	22°8'72"	20754*	32	17°4'27"	24°7'53"
20533	6	17°9'57"	18°1'83"	20607*	14	10°1'91"	20°8'01"	20681	7	10°8'84"	22°6'24"	20755	28	17°7'88"	24°7'35"
20534	5	19°3'03"	18°9'22"	20608	11	10°1'96"	20°8'81"	20682	15	10°9'92"	22°3'05"	20756	7	20°3'93"	24°1'60"
20535	7	19°8'77"	18°2'93"	20609	9	10°2'89"	20°2'10"	20683	10	11°0'47"	22°5'61"	20757	14	20°5'65"	24°4'09"
20536	7	20°9'53"	18°9'97"	20610	5	10°5'11"	20°6'79"	20684	14	11°5'23"	22°3'05"	20758	15	23°3'94"	24°5'14"
20537*	22	21°0'82"	18°9'36"	20611	13	10°6'47"	20°6'84"	20685	22	13°7'45"	22°2'79"	20759	15	24°3'86"	24°0'29"
20538	16	23°4'19"	18°5'14"	20612*	23	11°5'44"	20°9'75"	20686	18	13°7'47"	22°8'83"	20760	15	25°7'72"	24°1'83"
20539	18	25°0'66"	18°2'72"	20613	14	11°8'15"	20°6'07"	20687	11	14°4'32"	22°7'94"	20761	23	0°1'09"	25°7'56"
20540	17	0°4'00"	19°7'80"	20614	13	12°0'22"	20°5'51"	20688	8	14°8'39"	22°3'30"	20762	12	1°0'57"	25°7'37"
20541	13	1°8'07"	19°3'44"	20615	17	13°3'10"	20°7'21"	20689	19	15°4'16"	22°8'98"	20763*	29	2°4'11"	25°0'26"
20542	12	1°8'15"	19°6'80"	20616	8	13°9'14"	20°9'52"	20690	32	15°4'89"	22°7'64"	20764	20	2°6'12"	25°8'18"
20543	14	2°4'17"	19°2'91"	20617	26	15°2'62"	20°0'71"	20691	8	17°4'30"	22°4'40"	20765	8	3°6'06"	25°1'07"
20544	5	3°5'64"	19°3'93"	20618	7	15°8'71"	20°9'57"	20692	6	17°5'58"	22°5'03"	20766	9	3°8'93"	25°6'51"
20545	8	3°8'67"	19°3'14"	20619	9	17°4'39"	20°4'90"	20693	21	18°1'44"	22°1'16"	20767	13	5°1'76"	25°5'80"
20546*	30	4°1'25"	19°4'12"	20620	11	17°5'09"	20°6'87"	20694	13	18°2'07"	22°3'59"	20768	8	5°1'93"	25°9'67"
20547	5	4°4'32"	19°8'96"	20621	8	18°2'12"	20°3'67"	20695	22	18°2'55"	22°2'76"	20769	29	5°8'34"	25°1'26"
20548	11	5°6'81"	19°9'81"	20622	8	18°3'74"	20°3'86"	20696	9	21°0'77"	22°5'31"	20770	9	8°3'71"	25°4'70"
20549*	29	5°7'68"	19°0'15"	20623	14	18°5'10"	20°4'79"	20697	16	21°9'17"	22°2'16"	20771	25	9°1'29"	25°6'64"
20550	17	5°8'74"	19°2'38"	20624	7	18°5'91"	20°7'13"	20698	26	22°5'48"	22°9'88"	20772	10	10°5'35"	25°4'77"
20551	12	6°1'95"	19°6'51"	20625	8	18°8'56"	20°1'22"	20699	24	23°4'96"	22°8'59"	20773	8	11°0'32"	25°7'95"
20552	5	7°0'41"	19°1'94"	20626	8	19°0'59"	20°5'73"	20700	13	24°2'23"	22°9'07"	20774	6	11°0'52"	25°2'49"
20553	16	8°2'36"	19°4'92"	20627	11	19°8'04"	20°8'60"	20701	9	0°0'27"	23°3'60"	20775	9	14°1'07"	25°3'05"
20554	10	8°9'23"	19°4'17"	20628	12	20°2'40"	20°7'58"	20702	15	0°0'54"	23°5'48"	20776	11	14°3'72"	25°6'82"
20555	16	9°2'70"	19°6'51"	20629*	30	20°5'13"	20°5'91"	20703	9	0°6'65"	23°0'03"	20777*	24	15°1'04"	25°0'68"
20556	19	9°3'34"	19°6'76"	20630	10	20°7'16"	20°6'89"	20704	19	1°0'55"	23°1'78"	20778	9	15°7'06"	25°0'67"
20557	19	10°4'60"	19°2'39"	20631	21	20°8'04"	20°5'74"	20705	17	2°7'56"	23°0'57"	20779	12	15°8'18"	25°4'62"
20558	11	10°7'81"	19°4'05"	20632	13	22°5'80"	20°9'37"	20706	22	3°1'92"	23°3'66"	20780	11	16°1'29"	25°0'56"
20559	8	11°5'48"	19°8'09"	20633	12	23°1'84"	20°5'68"	20707	11	3°4'94"	23°1'35"	20781	9	16°5'12"	25°4'83"
20560	10	11°5'80"	19°4'52"	20634	8	23°3'17"	20°9'60"	20708	8	3°8'84"	23°0'17"	20782	10	17°2'21"	25°6'15"
20561	8	11°5'88"	19°3'40"	20635	12	0°6'62"	21°5'84"	20709	13	4°1'53"	23°8'31"	20783	9	17°3'89"	25°9'26"
20562	13	11°6'58"	19°0'86"	20636	8	2°5'99"	21°9'12"	20710*	40	7°4'07"	23°8'94"	20784	10	18°7'58"	25°7'13"
20563	16	12°1'71"	19°7'51"	20637	12	4°3'16"	21°4'39"	20711	23	7°9'84"	23°0'62"	20785	22	19°6'71"	25°4'34"
20564	10	12°1'74"	19°0'22"	20638	14	4°5'12"	21°6'88"	20712	11	8°4'62"	23°2'41"	20786	13	23°3'91"	25°7'31"
20565	16	12°8'88"	19°2'45"	20639	23	4°8'49"	21°9'71"	20713	10	8°5'19"	23°3'98"				
20566	8	13°3'06"	19°5'99"	20640	8	5°3'29"	21°8'36"	20714	12	10°6'20"	23°6'23"				
20567*	22	13°4'19"	19°4'23"	20641	7	6°7									

20857	32	23°52'	1°16'	20931	10	24°07'	3°18'	21005	25	23°26'	5°82'	21079	10	23°30'	7°130'	21153	14	23°165'	10°291'
20858	12	24°56'	1°27'	20932	17	24°455'	3°336'	21006	16	24°057'	5°914'	21080	16	1°614'	8°901'	21154	6	23°436'	10°797'
20859	22	24°696'	1°175'	20933	8	24°557'	3°957'	21007	34	24°103'	5°327'	21081	21	3°245'	8°690'	21155	16	24°195'	10°782'
20860	26	25°386'	1°981'	20934	9	24°828'	3°966'	21008	11	25°292'	5°563'	21082	16	4°103'	8°790'	21156	10	24°304'	10°098'
20861	9	25°743'	1°235'	20935	10	25°109'	3°264'	21009	16	0°114'	6°431'	21083	18	4°665'	8°456'	21157	16	24°956'	10°041'
20862	29	25°801'	1°813'	20936	15	25°816'	3°350'	21010	27	0°703'	6°744'	21084	9	4°797'	8°418'	21158	8	25°437'	10°615'
20863	11	0°098'	2°882'	20937	20	1°103'	4°468'	21011	18	1°496'	6°229'	21085	8	5°143'	8°996'	21159	8	1°907'	11°047'
20864	18	0°771'	2°293'	20938	10	1°250'	4°883'	21012	5	1°753'	6°253'	21086	11	6°722'	8°504'	21160	13	2°193'	11°437'
20865	23	1°033'	2°929'	20939	10	1°730'	4°567'	21013	22	2°067'	6°590'	21087	12	7°174'	8°432'	21161	8	2°668'	11°360'
20866	18	1°061'	2°781'	20940	29	2°421'	4°658'	21014	21	2°651'	6°431'	21088	14	9°158'	8°254'	21162	16	4°498'	11°510'
20867	6	1°653'	2°857'	20941	6	3°634'	4°536'	21015	11	3°103'	6°904'	21089	9	10°388'	8°756'	21163	13	4°934'	11°553'
20868	7	2°117'	2°403'	20942	12	5°507'	4°438'	21016	11	3°638'	6°811'	21090	29	10°804'	8°843'	21164	14	5°476'	11°092'
20869	8	3°630'	2°776'	20943	13	6°196'	4°275'	21017	7	3°845'	6°706'	21091	11	11°208'	8°557'	21165	6	6°917'	11°401'
20870	8	3°867'	2°809'	20944	9	6°788'	4°063'	21018	18	4°231'	6°075'	21092	19	12°217'	8°978'	21166	13	7°323'	11°714'
20871	23	3°885'	2°342'	20945	23	9°889'	4°556'	21019	20	8°326'	6°442'	21093	9	13°416'	8°365'	21167	8	7°814'	11°953'
20872	6	6°935'	2°816'	20946	6	10°371'	4°287'	21020	16	8°344'	6°975'	21094	13	13°428'	8°746'	21168	8	10°362'	11°697'
20873*	34	7°230'	2°611'	20947	14	10°644'	4°846'	21021	13	8°452'	6°738'	21095	8	14°739'	8°402'	21169	9	10°410'	11°601'
20874	13	7°966'	2°699'	20948	8	10°679'	4°335'	21022	9	9°548'	6°276'	21096	13	16°054'	8°305'	21170	14	11°347'	11°500'
20875	11	8°751'	2°625'	20949	8	11°110'	4°989'	21023	6	9°883'	6°424'	21097*	45	18°623'	8°000'	21171	15	11°793'	11°825'
20876	25	9°662'	2°032'	20950	19	12°386'	4°975'	21024	5	10°276'	6°054'	21098	13	20°276'	8°124'	21172	7	11°825'	11°791'
20877	18	11°036'	2°246'	20951	10	13°285'	4°011'	21025	13	10°448'	6°251'	21099	11	20°952'	8°915'	21173	15	11°916'	11°773'
20878	14	11°392'	2°443'	20952	12	13°364'	4°812'	21026	8	11°191'	6°420'	21100	25	21°798'	8°216'	21174	12	12°093'	11°602'
20879	10	11°981'	2°816'	20953	16	14°242'	4°521'	21027	9	12°510'	6°515'	21101	9	22°826'	8°756'	21175	15	12°916'	11°095'
20880	12	13°182'	2°931'	20954	8	16°475'	4°836'	21028	22	12°807'	6°911'	21102	26	23°246'	8°656'	21176	12	13°272'	11°137'
20881	7	13°854'	2°602'	20955	12	17°678'	4°325'	21029	18	14°403'	6°092'	21103	9	23°577'	8°429'	21177	9	14°711'	11°751'
20882	9	15°625'	2°207'	20956	5	17°777'	4°344'	21030	24	14°504'	6°928'	21104	10	24°169'	8°201'	21178	15	14°973'	11°954'
20883	16	15°796'	2°461'	20957	8	18°759'	4°811'	21031	23	14°689'	6°545'	21105	13	25°114'	8°324'	21179	12	17°734'	11°211'
20884	17	16°026'	2°136'	20958	18	19°206'	4°262'	21032	6	16°093'	6°757'	21106	9	25°646'	8°107'	21180	23	18°233'	11°064'
20885	16	16°627'	2°236'	20959	15	19°299'	4°779'	21033	10	16°438'	6°933'	21107	21	0°036'	9°310'	21181	7	18°842'	11°073'
20886	6	17°794'	2°525'	20960	30	19°956'	4°521'	21034	6	16°916'	6°354'	21108	8	1°122'	9°309'	21182	6	19°953'	11°177'
20887	30	18°054'	2°709'	20961	14	20°832'	4°927'	21035	11	17°041'	6°660'	21109*	32	1°126'	9°150'	21183	13	20°257'	11°176'
20888	8	18°303'	2°140'	20962	24	21°004'	4°036'	21036	14	17°140'	6°392'	21110	21	2°227'	9°521'	21184	7	21°246'	11°864'
20889	13	18°671'	2°317'	20963	7	21°409'	4°153'	21037	6	17°392'	6°553'	21111	26	3°662'	9°869'	21185	13	21°526'	11°985'
20890	6	20°892'	2°248'	20964	20	21°630'	4°463'	21038	17	17°953'	6°413'	21112	24	6°062'	9°581'	21186	22	21°873'	11°876'
20891	9	1°698'	3°786'	20965	13	21°854'	4°521'	21039	21	18°641'	6°192'	21113	6	6°565'	9°249'	21187	18	22°775'	11°485'
20892	7	4°994'	3°417'	20966	24	22°339'	4°376'	21040	14	19°398'	6°464'	21114	7	6°838'	9°083'	21188	27	24°292'	11°292'
20893	19	6°576'	3°490'	20967	16	22°750'	4°637'	21041	11	19°499'	6°032'	21115	13	8°788'	9°876'	21189	25	25°365'	11°127'
20894	9	6°767'	3°661'	20968	19	23°668'	4°491'	21042	13	19°552'	6°766'	21116	9	9°236'	9°119'	21190	17	25°769'	11°706'
20895	10	7°575'	3°599'	20969	13	23°735'	4°952'	21043	10	19°641'	6°517'	21117	10	9°887'	9°833'	21191	5	1°662'	12°475'
20896*	34	7°882'	3°611'	20970	11	23°768'	4°383'	21044	9	20°550'	6°348'	21118	10	10°289'	9°159'	21192	9	1°707'	12°494'
20897	6	7°907'	3°338'	20971	14	24°427'	4°481'	21045	7	21°791'	6°987'	21119	9	11°980'	9°884'	21193	14	3°019'	12°708'
20898	24	8°803'	3°094'	20972	27	24°557'	4°210'	21046	36	21°978'	6°230'	21120	6	13°275'	9°816'	21194	17	3°580'	12°906'
20899	8	9°095'	3°856'	20973	19	24°839'	4°491'	21047	7	22°149'	6°291'	21121	8	13°714'	9°609'	21195	13	5°584'	12°939'
20900	16	10°046'	3°910'	20974	8	25°136'	4°922'	21048	9	22°528'	6°155'	21122	6	14°189'	9°721'	21196	9	7°403'	12°668'
20901	22	10°056'	3°927'	20975	23	3°475'	5°966'	21049	7	22°654'	6°095'	21123	9	14°903'	9°296'	21197	10	8°546'	12°032'
20902	13	10°811'	3°732'	20976	7	3°972'	5°961'	21050	14	22°657'	6°821'	21124	13	16°475'	9°766'	21198	11	10°734'	12°864'
20903	14	11°370'	3°228'	20977	14	4°447'	5°964'	21051	13	22°691'	6°465'	21125	14	17°024'	9°213'	21199	12	11°599'	12°688'
20904	5	11°454'	3°987'	20978	21	7°461'	5°646'	21052	19	23°796'	6°117'	21126	22	17°092'	9°160'	21200	7	13°978'	12°716'
20905	9	12°676'	3°019'	20979	5	8°203'	5°142'	21053	7	24°896'	6°114'	21127	13	17°214'	9°379'	21201	13	14°167'	12°437'
20906	9	13°387'	3°459'	20980	11	8°937'	5°376'	21054	13	25°756'	6°118'	21128	22	17°771'	9°439'	21202	21	14°382'	12°656'
20907	7	14°035'	3°983'	20981	7	8°959'	5°639'	21055	9	0°293'	7°393'	21129	16	18°663'	9°472'	21203	16	14°835'	12°329'
20908	20	14°486'	3°401'	20982	6	9°596'	5°991'	21056	7	0°552'	7°867'	21130	12	19°256'	9°015'	21204	8	15°410'	12°808'
20909	7	15°514'	3°005'	20983	16	10°374'	5°688'	21057	29	1°183'	7°488'	21131	19	21°526'	9°190'	21205	5	15°445'	12°605'
20910	17	15°862'	3°627'	20984	12	10°986'	5°046'	21058	15	2°662'	7°636'	21132	14	21°851'	9°699'	21206	6	16°116'	12°248'
20911	5	16°591'	3°004'	20985	18	11°844'	5°169'	21059*	32	4°936'	7°733'	21133	16	22°869'	9°183'	21207	20	16°501'	12°073'
20912	11	16°776'	3°721'	20986	19	12°599'	5°516'	21060	7	5°490'	7°534'	21134	11	24°430'	9°742'	21208	13	18°714'	12°996'
20913	13	17°352'	3°169'	20987	20	13°135'	5°772'	21061	8	6°196'	7°825'	21135	14	25°267'	9°943'	21209	5	19°356'	12°183'
20914	5	17°376'	3°874'	20988	6	13°183'	5°221'	21062	13	6°450'	7°758'	21136	17	25°870'	9°946'	21210	11	19°672'	12°026'
20915	15	17°918'	3°651'	20989	7	14°958'	5°878'	21063	8	8°441'	7°898'	21137	7	0°004'	10°918'	21211	18	20°309'	12°079'
20916	11	18°243'	3°185'	20990	25	15°108'	5°401'	21064*	32	11°774'	7°611'	21138	15	1°283'	10°903'	21212	5	20°344'	12°455'
20917	7	18°399'	3°054'	20991	10	15°461'	5°810'	21065	14	13°160'	7°912'	21139	9	3°566'	10°542'	21213	21	20°505'	12°722'
20918	20	18°468'	3°520'	20992	11	16°406'	5°642'	21066	29	13°907'	7°776'	21140	11	5°202'	10°185'	21214	11	20°678'	12°265'
20919	26	18°579'	3°950'	20993	18	17°126'	5°817'	21067	9	14°016'	7°492'	21141	17	7°086'	10°779'	21215	11	21°065'	12°030'
20920	14	18°934'	3°728'	20994	7	17°569'	5°246'	21068	17	14°3									

21227	17	2°027	13°053	21301	11	23°768	14°952	21375	40	0°266	17°279	21449	11	25°186	18°208	21523	6	18°608	20°132
21228	13	2°864	13°789	21302	24	24°254	14°517	21376	8	2°275	17°273	21450	16	25°350	18°252	21524	19	19°162	20°360
21229	8	3°371	13°677	21303*	32	24°540	14°294	21377	17	2°666	17°896	21451	12	0°548	19°105	21525*	38	19°784	20°527
21230	11	6°083	13°294	21304	24	0°004	15°488	21378	23	3°087	17°746	21452	9	0°854	19°636	21526	7	20°155	20°755
21231	12	6°252	13°423	21305	20	0°413	15°421	21379	27	3°653	17°800	21453	12	0°963	19°472	21527	11	20°241	20°868
21232	5	6°569	13°941	21306	30	0°936	15°404	21380	15	5°111	17°559	21454	14	1°203	19°526	21528	5	20°964	20°252
21233	12	7°182	13°894	21307	18	2°422	15°262	21381	6	5°372	17°168	21455	12	1°267	19°081	21529	9	21°065	20°767
21234	13	9°086	13°666	21308	20	3°475	15°606	21382*	36	5°808	17°072	21456	20	1°707	19°373	21530	15	21°719	20°277
21235	9	9°263	13°828	21309	21	3°641	15°175	21383	12	6°348	17°293	21457	11	3°632	19°008	21531	12	23°154	20°088
21236	6	9°501	13°830	21310	9	3°915	15°627	21384	8	7°954	17°978	21458	18	5°484	19°953	21532*	40	24°470	20°326
21237	5	9°787	13°320	21311	9	4°008	15°228	21385	21	7°980	17°489	21459	22	5°487	19°930	21533	14	24°599	20°680
21238	11	9°842	13°060	21312	21	4°827	15°591	21386	8	8°827	17°046	21460	7	5°713	19°527	21534	15	24°747	20°679
21239	12	10°465	13°222	21313	10	6°095	15°450	21387	12	8°836	17°314	21461	18	5°934	19°786	21535	24	25°437	20°201
21240	11	10°683	13°983	21314	17	6°874	15°690	21388	11	9°517	17°601	21462	23	6°176	19°080	21536	21	25°676	20°402
21241	21	10°765	13°686	21315	8	6°927	15°057	21389	8	10°063	17°367	21463	22	6°458	19°551	21537*	34	0°525	21°235
21242	13	10°861	13°278	21316	13	7°624	15°052	21390	9	10°197	17°973	21464	24	6°697	19°127	21538	11	5°148	21°154
21243	26	11°254	13°647	21317	9	7°887	15°388	21391	8	10°411	17°798	21465	13	6°858	19°790	21539	7	6°352	21°489
21244	20	11°682	13°995	21318	31	8°173	15°278	21392	22	11°089	17°194	21466*	25	7°022	19°882	21540	8	8°574	21°472
21245	14	13°203	13°708	21319	26	8°844	15°770	21393	12	11°252	17°229	21467	13	7°325	19°739	21541	14	8°643	21°877
21246	5	14°151	13°690	21320	9	9°153	15°694	21394	7	11°700	17°117	21468	14	8°712	19°803	21542*	25	9°036	21°863
21247	10	14°250	13°052	21321*	27	9°185	15°691	21395	6	11°916	17°846	21469	15	8°806	19°421	21543	9	11°507	21°137
21248	5	14°501	13°874	21322	13	11°356	15°045	21396	7	12°832	17°727	21470	11	9°124	19°432	21544	17	11°619	21°892
21249	6	14°694	13°557	21323	8	11°625	15°228	21397	9	12°840	17°193	21471	7	9°397	19°808	21545	14	12°663	21°849
21250	14	15°753	13°666	21324	18	12°698	15°641	21398	8	13°325	17°669	21472	10	9°638	19°224	21546	7	12°727	21°336
21251	9	15°836	13°187	21325	13	14°946	15°587	21399	22	13°682	17°037	21473	27	9°713	19°715	21547*	22	13°225	21°551
21252	10	15°894	13°136	21326	7	15°342	15°544	21400	14	14°384	17°378	21474*	36	9°881	19°034	21548	13	14°326	21°768
21253	23	16°623	13°653	21327	22	18°220	15°619	21401*	53	14°806	17°331	21475	7	10°082	19°109	21549	15	14°546	21°708
21254	5	17°218	13°059	21328*	36	19°724	15°468	21402	5	14°920	17°746	21476	8	10°241	19°905	21550	20	15°207	21°781
21255	17	17°247	13°069	21329	12	19°786	15°532	21403	7	15°048	17°395	21477	14	11°460	19°831	21551*	35	16°646	21°382
21256	18	17°720	13°992	21330*	60	19°917	15°488	21404	10	15°976	17°934	21478	13	11°773	19°851	21552	15	17°822	21°738
21257	6	17°844	13°452	21331	9	20°234	15°405	21405	8	16°127	17°317	21479*	36	14°894	19°531	21553	13	20°274	21°156
21258	21	17°865	13°321	21332	12	20°946	15°547	21406	10	18°365	17°904	21480	6	16°379	19°543	21554*	36	20°563	21°665
21259*	40	17°921	13°364	21333	17	21°786	15°794	21407	5	19°617	17°352	21481	8	17°629	19°202	21555	17	21°414	21°878
21260	14	18°411	13°415	21334	6	22°523	15°151	21408	6	19°975	17°715	21482	5	17°669	19°149	21556	8	21°446	21°522
21261	22	19°940	13°223	21335	9	23°020	15°126	21409	13	20°008	17°486	21483	13	18°211	19°149	21557	7	22°235	21°648
21262	14	20°236	13°132	21336	22	23°286	15°417	21410	14	20°051	17°222	21484	8	18°866	19°374	21558	17	23°017	21°669
21263	6	21°329	13°186	21337	13	23°809	15°439	21411	9	20°556	17°533	21485	6	19°209	19°552	21559	7	23°169	21°835
21264	7	21°474	13°217	21338	6	24°198	15°616	21412	23	21°007	17°670	21486	9	19°505	19°118	21560	26	23°226	21°778
21265	8	22°227	13°005	21339	33	24°677	15°994	21413	7	21°556	17°600	21487	17	19°577	19°108	21561	12	23°461	21°987
21266	19	22°425	13°119	21340	16	1°595	16°532	21414	15	22°939	17°397	21488	9	19°895	19°284	21562	24	23°950	21°584
21267	22	22°768	13°517	21341	28	3°775	16°721	21415	14	23°097	17°989	21489*	22	21°509	19°783	21563	13	0°318	22°255
21268*	34	22°784	13°351	21342*	24	4°161	16°035	21416	6	23°902	17°602	21490	9	22°994	19°834	21564	24	1°906	22°867
21269	8	24°157	13°660	21343	8	4°680	16°918	21417	11	24°137	17°725	21491	23	24°211	19°036	21565	13	2°635	22°906
21270	10	24°275	13°977	21344	18	4°904	16°348	21418	16	24°657	17°898	21492	6	25°458	19°330	21566	22	5°372	22°758
21271	13	24°582	13°816	21345	9	6°153	16°689	21419	13	25°791	17°292	21493	8	0°957	20°966	21567	10	7°666	22°162
21272	6	24°685	13°754	21346	13	7°424	16°036	21420	13	1°754	18°526	21494	8	1°554	20°584	21568	13	8°584	22°221
21273	8	1°811	14°804	21347	8	7°845	16°117	21421	17	3°397	18°257	21495	16	5°177	20°518	21569	8	8°832	22°371
21274	11	2°142	14°548	21348	16	8°746	16°458	21422*	32	5°084	18°645	21496	15	5°352	20°614	21570	14	9°094	22°175
21275	7	3°301	14°052	21349	10	9°182	16°155	21423	24	5°447	18°508	21497	10	5°805	20°576	21571	12	9°129	22°063
21276	8	3°982	14°224	21350	13	9°634	16°611	21424	16	5°728	18°710	21498	7	6°335	20°871	21572	15	9°285	22°740
21277	9	4°544	14°946	21351	6	10°583	16°494	21425	13	5°966	18°591	21499	14	6°709	20°456	21573	6	10°970	22°032
21278	32	5°036	14°042	21352	24	10°746	16°064	21426	5	6°704	18°804	21500	13	6°837	20°159	21574	12	11°133	22°819
21279	14	6°150	14°651	21353	22	11°515	16°592	21427*	26	6°735	18°578	21501	8	6°891	20°819	21575	23	11°324	22°618
21280	12	7°383	14°740	21354	16	13°074	16°729	21428	7	7°707	18°272	21502	5	7°027	20°948	21576*	19	11°645	22°023
21281	6	9°747	14°656	21355	20	13°435	16°256	21429	6	10°265	18°693	21503	16	8°288	20°336	21577	11	11°910	22°478
21282	21	10°370	14°859	21356	6	14°523	16°358	21430	13	13°874	18°415	21504	9	10°247	20°067	21578	8	13°693	22°376
21283	10	10°435	14°995	21357	9	14°964	16°279	21431	14	14°371	18°057	21505	6	11°175	20°732	21579	13	15°824	22°393
21284	25	11°629	14°728	21358	17	15°926	16°546	21432	14	14°413	18°546	21506	7	11°179	20°966	21580	16	16°770	22°278
21285	7	12°746	14°834	21359	12	16°385	16°379	21433	23	14°926	18°581	21507	13	11°275	20°729	21581	5	17°504	22°117
21286	10	12°839	14°359	21360	9	16°981	16°789	21434	16	15°127	18°822	21508	14	11°927	20°173	21582	13	17°525	22°229
21287	23	13°306	14°185	21361	16	17°379	16°319	21435	18	16°344	18°393	21509	12	12°244	20°351	21583	22	18°270	22°176
21288	13	13°495	14°059	21362	20	17°993	16°804	21436	22	17°762	18°138	21510	21	12°358	20°271	21584	10	18°716	22°817
21289	24	14°187	14°581	21363	10														

21597	13	3°526	23°233	<div>R. A. 6^h 20^m</div> <div>Plate 2438; 1905 Mar. 31.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-00067 +00262 -1718</div> <div>D E F</div> <div>-00296 -00042 +1922</div> <div>Mag. = 16.4 - 1.25√d</div>	21757	16	4°745	2°235	21831	9	21°944	3°319	21905	10	10°346	5°444
21598	19	3°773	23°804		21758*	40	5°610	2°257	21832	8	23°636	3°217	21906	7	10°528	5°562
21599	12	6°062	23°888		21759	6	5°690	2°837	21833	15	24°544	3°967	21907	9	10°947	5°010
21600	13	7°148	23°102		21760	20	5°794	2°728	21834	14	24°632	3°229	21908	18	12°083	5°501
21601	5	7°216	23°435		21761	27	6°885	2°085	21835	14	24°780	3°506	21909	21	12°910	5°736
21602	12	7°704	23°103		21762	6	7°832	2°403	21836	18	25°184	3°066	21910	8	13°884	5°426
21603	15	9°598	23°435		21763	16	7°945	2°040	21837	25	25°368	3°386	21911	17	13°938	5°860
21604	23	9°675	23°617		21764	24	8°227	2°052	21838	12	25°377	3°123	21912	20	14°844	5°142
21605	5	10°256	23°768		21765	7	9°501	2°683	21839	6	25°712	3°312	21913	8	15°905	5°718
21606	13	12°770	23°829		21766	24	9°830	2°284	21840	19	0°005	4°897	21914	17	16°035	5°907
21607	12	12°801	23°225	21767	12	9°975	2°851	21841	14	0°016	4°421	21915	8	16°934	5°985	
21608	11	13°586	23°522	21768	14	10°197	2°653	21842	26	1°164	4°234	21916	13	17°265	5°531	
21609*	30	14°096	23°885	21769	13	10°989	2°133	21843	17	1°338	4°992	21917	27	17°284	5°792	
21610*	33	14°154	23°704	21770	11	11°424	2°964	21844	8	1°431	4°879	21918	12	17°980	5°195	
21611	8	15°928	23°706	21771	17	12°026	2°641	21845	13	2°095	4°969	21919	7	18°088	5°482	
21612	20	19°219	23°727	21772	9	12°292	2°828	21846	28	2°222	4°692	21920	17	18°254	5°424	
21613	6	19°282	23°963	21773	11	12°954	2°497	21847	7	2°485	4°443	21921	14	18°287	5°455	
21614	13	21°707	23°438	21774	10	13°058	2°020	21848	17	2°507	4°968	21922	10	19°023	5°411	
21615	11	22°357	23°114	21775	7	14°079	2°158	21849	26	4°629	4°291	21923	11	19°330	5°775	
21616	25	22°384	23°792	21776	15	14°252	2°521	21850	15	4°746	4°156	21924	16	19°453	5°951	
21617	13	1°833	24°528	21777	7	14°404	2°727	21851	7	4°758	4°744	21925	14	20°455	5°768	
21618	14	2°819	24°025	21778	13	14°635	2°137	21852	14	6°247	4°582	21926	16	21°419	5°034	
21619	16	4°207	24°156	21779	16	15°097	2°829	21853	15	6°367	4°693	21927	7	21°579	5°696	
21620	10	5°323	24°629	21780	24	15°366	2°219	21854	14	6°948	4°623	21928	6	22°114	5°768	
21621	12	6°147	24°948	21781	21	16°117	2°762	21855	12	8°116	4°181	21929	14	22°854	5°017	
21622	13	10°062	24°501	21782	12	17°262	2°807	21856	14	8°202	4°511	21930	16	22°912	5°086	
21623	30	11°083	24°547	21783	13	17°845	2°243	21857	15	8°493	4°500	21931	7	23°784	5°627	
21624	6	12°696	24°225	21784	13	18°109	2°825	21858	13	8°512	4°832	21932	9	24°638	5°576	
21625	23	12°977	24°284	21785	9	18°196	2°143	21859	13	9°301	4°614	21933	10	25°138	5°319	
21626	11	13°212	24°961	21786	30	20°432	2°236	21860	6	9°595	4°665	21934	7	25°846	5°696	
21627	13	13°283	24°376	21787	20	20°006	2°384	21861	16	11°285	4°370	21935	11	25°893	5°694	
21628	12	13°452	24°754	21788	8	21°656	2°565	21862	14	11°337	4°547	21936	13	0°344	6°484	
21629	13	13°693	24°246	21789	16	22°379	2°530	21863	12	11°570	4°992	21937	10	0°390	6°979	
21630	9	13°807	24°658	21790	6	22°944	2°265	21864	34	14°983	4°550	21938	26	0°958	6°334	
21631	6	14°253	24°327	21791	9	23°396	2°467	21865	14	15°400	4°158	21939	16	1°493	6°613	
21632	9	14°786	24°696	21792	8	23°894	2°479	21866	11	15°515	4°031	21940	14	1°749	6°408	
21633	15	15°164	24°055	21793	25	23°987	2°196	21867	13	15°857	4°438	21941	7	2°669	6°489	
21634	13	15°378	24°927	21794	9	24°559	2°747	21868	16	16°386	4°333	21942	8	2°705	6°505	
21635*	36	16°041	24°950	21795	13	0°821	3°651	21869	16	17°683	4°488	21943	12	2°979	6°035	
21636	30	16°585	24°046	21796	6	1°722	3°681	21870	11	17°700	4°060	21944	13	3°453	6°579	
21637	7	18°683	24°435	21797	15	2°103	3°820	21871*	28	17°952	4°946	21945	11	4°104	6°404	
21638	24	23°347	24°736	21798	11	2°756	3°736	21872	11	20°125	4°904	21946	13	6°579	6°097	
21639	8	24°526	24°011	21799	15	3°465	3°812	21873	17	20°375	4°533	21947	15	6°720	6°888	
21640	26	25°148	24°184	21800	7	4°601	3°136	21874	10	20°854	4°866	21948	7	7°096	6°842	
21641	12	25°532	24°625	21801*	34	5°044	3°339	21875	14	21°346	4°916	21949	14	8°497	6°025	
21642	12	25°843	24°042	21802	15	5°464	3°875	21876	10	21°787	4°354	21950	27	8°702	6°869	
21643	8	1°852	25°744	21803	9	5°574	3°292	21877	20	23°008	4°802	21951	12	8°942	6°031	
21644	15	4°839	25°263	21804	27	5°982	3°588	21878	9	23°556	4°169	21952	15	9°729	6°994	
21645	12	6°229	25°896	21805	25	6°077	3°004	21879	7	23°804	4°763	21953	7	10°588	6°366	
21646	9	8°698	25°507	21806	14	8°339	3°995	21880	13	24°966	4°181	21954	12	11°323	6°983	
21647	7	8°948	25°432	21807	25	8°621	3°172	21881	6	25°166	4°806	21955	18	11°778	6°356	
21648	18	11°046	25°471	21808	27	9°887	3°645	21882	7	0°024	5°658	21956	26	12°308	6°470	
21649	15	12°006	25°935	21809	9	10°479	3°701	21883	13	0°422	5°153	21957	11	12°448	6°796	
21650	16	12°256	25°691	21810	8	11°066	3°512	21884	10	1°412	5°450	21958	13	12°510	6°593	
21651	13	13°144	25°689	21811	13	11°082	3°298	21885	34	1°785	5°817	21959	16	12°695	6°416	
21652	9	13°501	25°710	21812	19	11°195	3°739	21886	9	2°813	5°395	21960	9	12°852	6°506	
21653	9	14°110	25°334	21813	16	11°196	3°144	21887	8	5°159	5°606	21961	10	13°070	6°957	
21654	5	17°476	25°259	21814	13	11°218	3°805	21888*	31	5°449	5°269	21962	7	14°975	6°654	
21655	10	17°561	25°376	21815	12	11°691	3°481	21889	13	5°768	5°396	21963	28	15°238	6°110	
21656	21	18°017	25°384	21816	14	12°269	3°781	21890	8	5°980	5°304	21964	7	15°476	6°733	
21657	10	19°705	25°807	21817	12	12°714	3°686	21891	28	6°139	5°057	21965	7	15°555	6°705	
21658	12	20°480	25°004	21818	16	12°914	3°182	21892	14	6°540	5°782	21966	10	1		

21979	32	22'665	6'250	22053	7	19'380	8'298	22127*	45	18'692	10'058	22201	11	11'660	12'291	22275	7	8'453	14'536
21980	9	22'755	6'449	22054	12	19'527	8'470	22128	8	20'655	10'626	22202	15	13'442	12'740	22276	7	8'482	14'653
21981	19	22'757	6'485	22055	13	19'856	8'737	22129	13	20'777	10'313	22203	9	13'526	12'114	22277*	51	8'977	14'378
21982	24	23'618	6'051	22056	19	20'219	8'337	22130	18	22'963	10'668	22204	7	13'754	12'450	22278	7	9'596	14'405
21983	20	24'312	6'690	22057	13	20'820	8'900	22131	7	23'056	10'057	22205	16	13'773	12'606	22279	12	10'510	14'824
21984	10	25'066	6'169	22058	25	21'278	8'790	22132	7	23'116	10'268	22206	8	14'372	12'601	22280	23	11'485	14'596
21985	15	25'116	6'163	22059	7	21'333	8'353	22133	12	23'160	10'327	22207	10	14'890	12'322	22281	24	12'199	14'972
21986*	37	25'732	6'598	22060	12	21'726	8'504	22134	22	23'465	10'199	22208	15	16'574	12'619	22282	8	12'680	14'856
21987	16	0'005	7'948	22061	12	22'552	8'899	22135	13	23'503	10'345	22209	29	17'693	12'404	22283	8	13'196	14'033
21988	13	0'367	7'337	22062	30	23'430	8'022	22136	12	24'631	10'360	22210	10	17'764	12'265	22284	7	13'455	14'762
21989	8	1'016	7'633	22063	28	24'186	8'602	22137	7	24'723	10'210	22211	12	18'735	12'676	22285	6	13'716	14'526
21990	14	4'395	7'622	22064	26	25'238	8'918	22138	15	24'926	10'875	22212	9	21'596	12'318	22286	7	14'493	14'157
21991	10	4'661	7'333	22065	13	25'444	8'793	22139	16	0'569	11'999	22213	10	22'147	12'630	22287	8	16'942	14'697
21992	8	5'416	7'421	22066	14	0'621	9'696	22140	15	1'975	11'272	22214*	29	22'905	12'400	22288	12	17'522	14'027
21993	7	5'474	7'305	22067	26	0'987	9'161	22141	27	2'079	11'778	22215	8	23'590	12'809	22289	13	18'814	14'258
21994	7	5'680	7'728	22068	26	5'694	9'597	22142	7	2'565	11'932	22216	12	24'225	12'126	22290	14	19'342	14'369
21995	13	5'944	7'762	22069	7	5'817	9'820	22143	26	3'150	11'595	22217	29	24'471	12'143	22291	22	19'765	14'402
21996	10	6'550	7'794	22070	8	7'099	9'269	22144	7	3'214	11'082	22218	6	25'274	12'359	22292	9	20'380	14'456
21997	6	7'494	7'326	22071	12	7'504	9'154	22145	20	4'626	11'645	22219	6	25'738	12'290	22293	15	20'454	14'707
21998	15	9'492	7'721	22072	9	9'413	9'811	22146	25	4'681	11'166	22220	8	0'046	13'525	22294	15	20'489	14'885
21999	7	12'862	7'493	22073	14	10'813	9'907	22147	19	5'867	11'136	22221	17	0'245	13'638	22295	9	20'526	14'935
22000	7	13'125	7'784	22074	26	10'851	9'802	22148	11	6'221	11'317	22222	11	0'607	13'511	22296	10	20'696	14'469
22001	9	13'912	7'322	22075	17	10'981	9'868	22149	7	6'549	11'150	22223*	34	0'610	13'864	22297	15	20'794	14'394
22002	10	14'095	7'539	22076	18	12'034	9'756	22150	14	7'074	11'291	22224	6	0'624	13'138	22298	8	20'988	14'461
22003	11	14'430	7'267	22077	11	12'884	9'036	22151	15	10'543	11'251	22225	10	1'426	13'123	22299*	31	21'077	14'526
22004	6	15'319	7'322	22078	6	14'186	9'250	22152	9	10'553	11'214	22226	7	1'625	13'679	22300	12	21'175	14'808
22005	17	15'341	7'595	22079	14	14'321	9'803	22153	25	12'429	11'998	22227	33	1'856	13'484	22301	9	21'726	14'268
22006	12	15'451	7'758	22080	10	15'244	9'824	22154	13	12'572	11'764	22228	14	2'643	13'088	22302	11	21'842	14'689
22007	11	15'628	7'539	22081	22	15'925	9'285	22155	14	13'067	11'224	22229	13	4'054	13'696	22303	7	22'718	14'574
22008	21	16'032	7'839	22082	7	16'151	9'899	22156	7	13'458	11'967	22230	13	4'528	13'833	22304	12	23'044	14'522
22009	21	16'046	7'272	22083	13	16'783	9'157	22157	11	13'924	11'369	22231	11	5'027	13'095	22305	13	23'085	14'671
22010*	31	18'157	7'390	22084	6	16'978	9'593	22158	11	14'001	11'162	22232	12	5'034	13'149	22306	10	23'305	14'696
22011	18	19'280	7'881	22085	7	17'287	9'123	22159	10	14'430	11'122	22233	19	6'435	13'841	22307	8	24'159	14'283
22012	12	19'372	7'985	22086	26	18'346	9'152	22160	14	15'401	11'962	22234	21	6'792	13'952	22308	7	24'340	14'104
22013	22	19'793	7'557	22087	15	19'392	9'687	22161	10	16'866	11'624	22235	20	6'906	13'005	22309	8	25'106	14'465
22014	18	20'250	7'896	22088	12	20'779	9'530	22162	7	18'577	11'893	22236	17	8'500	13'065	22310	8	25'134	14'685
22015	12	20'756	7'938	22089	12	21'298	9'188	22163	10	18'814	11'332	22237	13	8'877	13'795	22311	6	0'877	15'635
22016	10	21'465	7'875	22090	10	21'495	9'181	22164	17	18'841	11'822	22238	23	9'783	13'896	22312	19	1'147	15'918
22017	18	21'617	7'839	22091	13	21'673	9'913	22165	14	20'578	11'042	22239	9	10'449	13'031	22313	11	1'624	15'447
22018	8	22'080	7'470	22092	11	21'729	9'422	22166	20	21'057	11'891	22240	8	11'316	13'528	22314	14	1'669	15'934
22019*	35	22'531	7'828	22093	8	22'045	9'900	22167	8	21'363	11'223	22241	13	11'548	13'997	22315	23	2'101	15'003
22020	6	23'012	7'666	22094	9	23'108	9'839	22168	11	21'730	11'806	22242	16	11'828	13'319	22316	6	2'229	15'464
22021	9	23'401	7'377	22095	7	23'679	9'166	22169	8	22'187	11'414	22243	15	12'236	13'460	22317	13	4'362	15'097
22022	6	24'675	7'149	22096	15	24'201	9'200	22170	8	22'465	11'619	22244	10	12'255	13'856	22318	12	4'866	15'831
22023	6	25'092	7'262	22097	14	0'741	10'470	22171	24	22'882	11'576	22245	7	13'601	13'382	22319	12	4'871	15'913
22024	5	1'316	8'929	22098	12	0'935	10'797	22172	8	23'330	11'104	22246	8	13'633	13'254	22320*	31	5'181	15'001
22025	8	1'904	8'689	22099	9	2'072	10'586	22173	7	23'721	11'726	22247*	39	14'793	13'488	22321	7	7'018	15'245
22026	13	2'850	8'796	22100	11	2'191	10'228	22174	13	24'227	11'077	22248*	42	15'170	13'229	22322	15	7'033	15'228
22027	11	3'382	8'571	22101	15	2'724	10'516	22175	13	24'382	11'893	22249	11	15'354	13'123	22323	30	7'268	15'562
22028	10	3'829	8'876	22102	14	3'032	10'413	22176	10	24'634	11'461	22250	13	15'417	13'144	22324	7	7'312	15'815
22029	13	3'879	8'400	22103	16	3'634	10'405	22177	19	25'175	11'671	22251	14	18'075	13'032	22325	16	7'412	15'830
22030	10	4'223	8'336	22104	13	3'912	10'277	22178	16	25'441	11'057	22252	10	18'166	13'606	22326	6	7'877	15'168
22031	11	4'411	8'443	22105	6	3'940	10'943	22179	15	25'729	11'854	22253	13	20'102	13'064	22327	21	8'864	15'107
22032	27	4'422	8'990	22106	30	4'235	10'272	22180	6	1'394	12'583	22254	21	22'441	13'283	22328	20	9'114	15'824
22033*	33	4'715	8'227	22107	20	4'665	10'501	22181	15	3'545	12'735	22255	8	22'782	13'759	22329	11	9'630	15'614
22034	15	4'964	8'686	22108	8	5'838	10'104	22182	20	3'565	12'168	22256	15	22'878	13'337	22330	13	10'481	15'210
22035	10	5'356	8'304	22109	10	5'868	10'818	22183	7	3'832	12'169	22257	22	24'010	13'630	22331	16	11'077	15'425
22036	12	5'712	8'728	22110	14	8'314	10'913	22184	16	5'016	12'597	22258	19	24'133	13'304	22332	11	11'508	15'169
22037	27	7'371	8'272	22111*	40	8'492	10'920	22185	9	5'334	12'846	22259	17	24'230	13'751	22333	8	11'934	15'804
22038	7	9'171	8'495	22112	24	9'217	10'313	22186	17	5'724	12'376	22260	14	25'243	13'484	22334	9	12'041	15'223
22039	23	9'299	8'203	22113	9	11'515	10'131	22187	8	6'691	12'094	22261	22	0'596	14'029	22335	13	14'695	15'027
22040	10	9'899	8'275	22114	10	11'790	10'209	22188	7	6'913	12'212	22262	7	1'988	14'150	22336	21	16'152	15'562
22041	8	9'924	8'252	22115	13	12'196	10'778	22189	8	7'009	12'429	22263	10	2'114	14'463				

22349	10	23°934	15°371	22423	8	19°446	17°381	22497*	26	9°211	19°838	22571	7	4°836	21°410	22645	25	6°646	23°238
22350*	38	24°226	15°714	22424	26	19°589	17°788	22498*	23	9°319	19°669	22572	10	6°078	21°228	22646	9	7°083	23°578
22351	33	2°552	16°472	22425	8	20°020	17°011	22499	9	9°444	19°342	22573	23	6°093	21°067	22647	13	7°106	23°983
22352	6	2°661	16°938	22426	12	20°856	17°621	22500	14	10°885	19°235	22574	8	6°716	21°895	22648	13	7°847	23°691
22353	8	3°546	16°308	22427	8	21°066	17°858	22501*	26	11°991	19°373	22575	10	7°267	21°334	22649	7	8°131	23°500
22354	18	5°730	16°136	22428*	37	21°469	17°716	22502*	41	12°700	19°953	22576	8	7°807	21°654	22650	8	8°615	23°208
22355*	40	6°639	16°794	22429	14	21°753	17°728	22503	10	13°886	19°664	22577	7	7°955	21°406	22651	8	8°775	23°307
22356	8	6°754	16°435	22430	13	21°929	17°183	22504	14	14°842	19°521	22578	11	8°926	21°382	22652	11	9°107	23°715
22357	10	6°900	16°067	22431	10	22°048	17°630	22505	12	14°880	19°835	22579	9	9°481	21°695	22653	10	10°169	23°417
22358	21	7°242	16°642	22432	9	23°240	17°277	22506	8	16°758	19°388	22580	15	9°895	21°786	22654	9	10°230	23°246
22359	7	7°489	16°903	22433	14	23°370	17°938	22507	15	17°196	19°399	22581	19	9°979	21°732	22655	20	10°473	23°343
22360	9	7°811	16°651	22434	13	25°092	17°062	22508	26	18°409	19°062	22582*	25	10°307	21°026	22656	7	10°714	23°212
22361	14	7°944	16°701	22435	14	25°213	17°426	22509	14	19°214	19°690	22583	9	10°744	21°333	22657	11	10°757	23°390
22362	10	8°525	16°997	22436	8	25°386	17°069	22510	9	19°956	19°342	22584	9	12°244	21°183	22658	15	10°879	23°513
22363	11	8°712	16°020	22437	8	25°449	17°048	22511	10	20°128	19°347	22585*	25	12°971	21°020	22659	11	11°102	23°436
22364	21	9°650	16°191	22438	13	1°006	18°498	22512	9	21°361	19°393	22586	12	13°030	21°967	22660	12	12°403	23°063
22365	25	10°033	16°824	22439	7	1°263	18°650	22513	11	21°499	19°022	22587	23	14°236	21°569	22661	11	12°809	23°072
22366	10	10°290	16°406	22440	12	1°714	18°511	22514	12	22°021	19°497	22588	9	15°531	21°498	22662	13	13°424	23°285
22367	24	11°283	16°928	22441	10	2°041	18°215	22515	9	22°575	19°011	22589	9	16°463	21°052	22663	15	13°827	23°208
22368	26	11°478	16°879	22442	16	2°562	18°378	22516*	23	22°786	19°115	22590	12	16°760	21°575	22664	11	13°883	23°481
22369	18	12°029	16°152	22443	11	3°097	18°677	22517	10	23°061	19°261	22591	9	16°862	21°871	22665	14	14°010	23°702
22370	12	13°649	16°481	22444	15	3°262	18°720	22518	13	24°042	19°477	22592	10	17°166	21°213	22666	14	14°045	23°011
22371	7	13°682	16°310	22445	10	4°474	18°151	22519	20	25°479	19°786	22593	12	19°204	21°678	22667	9	14°851	23°139
22372	12	14°358	16°291	22446	25	4°738	18°329	22520*	33	25°742	19°073	22594	8	19°205	21°486	22668	7	15°867	23°529
22373	9	14°405	16°528	22447	8	4°965	18°268	22521	9	0°934	20°343	22595	13	19°290	21°752	22669	14	15°972	23°234
22374	15	14°923	16°753	22448	12	5°116	18°949	22522	10	1°097	20°594	22596	11	19°414	21°645	22670	10	16°324	23°097
22375	13	15°264	16°042	22449	17	5°208	18°621	22523*	42	2°420	20°807	22597*	43	19°815	21°341	22671	13	16°658	23°588
22376	14	15°342	16°097	22450	8	5°218	18°381	22524	24	3°385	20°664	22598	14	20°545	21°256	22672	12	16°891	23°273
22377	10	16°196	16°779	22451	7	5°427	18°674	22525	20	3°627	20°860	22599	12	21°043	21°802	22673	8	17°448	23°055
22378	15	16°297	16°923	22452	8	5°532	18°564	22526	14	4°362	20°199	22600	8	23°407	21°362	22674	16	17°780	23°298
22379	16	16°759	16°139	22453	12	6°043	18°266	22527	10	4°516	20°328	22601	21	25°520	21°933	22675	10	17°823	23°101
22380	8	16°872	16°828	22454	16	6°643	18°977	22528	27	5°268	20°178	22602	15	0°994	22°178	22676	10	18°572	23°761
22381	8	18°483	16°782	22455	7	6°686	18°998	22529	9	5°929	20°008	22603	6	1°145	22°342	22677	8	18°795	23°893
22382	14	18°529	16°633	22456*	45	7°155	18°789	22530	13	6°260	20°399	22604	23	1°199	22°282	22678	9	20°042	23°858
22383	9	19°295	16°559	22457	15	7°193	18°228	22531	18	6°681	20°514	22605	11	1°440	22°489	22679	12	20°369	23°744
22384	10	19°457	16°811	22458	7	7°336	18°286	22532	12	7°288	20°065	22606	24	1°922	22°074	22680	25	21°210	23°596
22385	23	19°676	16°135	22459	14	7°823	18°571	22533	6	7°341	20°182	22607	10	2°459	22°897	22681	14	22°559	23°365
22386	9	20°646	16°664	22460	7	8°095	18°656	22534	8	7°599	20°412	22608	8	2°566	22°468	22682	13	23°309	23°605
22387	28	22°586	16°346	22461	12	9°326	18°553	22535	14	7°963	20°827	22609	8	3°459	22°178	22683	11	23°682	23°805
22388	16	23°161	16°422	22462	8	9°484	18°014	22536	10	7°984	20°756	22610	8	5°545	22°562	22684	8	24°038	23°159
22389	14	0°835	17°906	22463	10	11°054	18°776	22537	12	8°217	20°853	22611	11	6°217	22°825	22685	7	24°108	23°272
22390	16	3°382	17°092	22464	8	11°850	18°399	22538	12	8°800	20°095	22612	8	6°329	22°369	22686	25	25°434	23°618
22391	8	3°424	17°935	22465	20	12°146	18°206	22539	10	9°893	20°582	22613	22	7°192	22°368	22687	24	0°396	24°314
22392	20	3°471	17°191	22466	13	12°498	18°256	22540	11	10°241	20°784	22614	9	7°238	22°038	22688	6	2°442	24°600
22393	14	3°687	17°749	22467*	26	12°604	18°123	22541	9	10°265	20°687	22615	9	7°295	22°623	22689	10	2°539	24°494
22394	24	4°642	17°682	22468	21	14°452	18°390	22542	10	11°594	20°229	22616	19	9°997	22°167	22690	26	3°166	24°652
22395	11	5°143	17°459	22469	7	14°497	18°674	22543	26	11°877	20°298	22617	13	10°157	22°606	22691	14	3°858	24°500
22396	12	5°168	17°717	22470*	38	15°935	18°331	22544	10	12°096	20°851	22618	11	10°735	22°367	22692	11	5°564	24°228
22397	7	5°552	17°197	22471	15	16°630	18°873	22545*	28	12°671	20°755	22619	23	11°910	22°424	22693	11	5°952	24°525
22398	9	6°584	17°396	22472	13	17°045	18°821	22546*	31	13°042	20°573	22620	14	12°696	22°094	22694	7	6°063	24°750
22399	12	6°630	17°310	22473	7	18°408	18°914	22547	16	13°155	20°497	22621	15	13°536	22°013	22695	9	6°096	24°351
22400	14	7°166	17°140	22474	12	18°408	18°914	22548	11	14°127	20°964	22622	25	13°709	22°574	22696	12	6°195	24°519
22401	14	8°295	17°064	22475	14	21°255	18°585	22549	12	14°594	20°187	22623	13	13°778	22°344	22697	6	7°497	24°140
22402	16	9°014	17°922	22476	26	21°402	18°722	22550	13	15°652	20°819	22624	26	15°532	22°246	22698	9	8°653	24°982
22403	6	9°213	17°785	22477	11	21°786	18°804	22551	12	16°232	20°604	22625	21	16°222	22°311	22699	25	9°842	24°445
22404	7	9°960	17°694	22478	11	22°445	18°918	22552	7	16°264	20°204	22626	7	16°756	22°194	22700	12	11°364	24°937
22405	15	10°504	17°816	22479	11	22°759	18°881	22553*	25	16°531	20°560	22627	20	17°083	22°692	22701	14	11°715	24°501
22406	21	11°430	17°067	22480	7	23°487	18°958	22554	8	17°672	20°516	22628	34	19°526	22°323	22702	12	11°875	24°395
22407	14	11°439	17°062	22481	7	24°668	18°948	22555	8	17°780	20°818	22629	10	20°627	22°014	22703	18	12°056	24°175
22408	13	11°534	17°277	22482	19	25°056	18°178	22556	8	18°221	20°814	22630	25	21°626	22°521	22704	10	12°126	24°745
22409	19	12°425	17°854	22483	10	25°354	18°696	22557	10	19°988	20°708	22631	11	22°959	22°279	22705	14	12°321	24°948
22410	20	12°508	17°205	22484	11	25°947	18°827	22558	9	20°067	20°446	22632	27	23°987	22°693	22706	18	12°733	24°781
22411	12	12°610	17°795	2248															

22719	8	22°594	24°199	22809	11	9°927	0°634	22883	16	16°323	1°103	22957	23	3°245	3°033	23031	8	10°901	4°293
22720	15	23°181	24°397	22810	12	9°977	0°782	22884	9	16°882	1°875	22958	31	3°436	3°350	23032	10	11°565	4°585
22721	12	23°454	24°484	22811	11	10°304	0°149	22885	18	17°107	1°148	22959	14	3°441	3°086	23033	13	11°766	4°245
22722	9	23°747	24°184	22812	9	10°323	0°246	22886	16	18°606	1°458	22960	8	3°778	3°265	23034	31	12°005	4°019
22723	14	24°429	24°247	22813	10	10°606	0°400	22887	7	19°641	1°066	22961	10	5°146	3°204	23035	12	12°748	4°518
22724*	35	24°950	24°575	22814	23	11°196	0°268	22888	16	19°718	1°840	22962	25	6°186	3°908	23036	14	12°752	4°288
22725	20	25°927	24°772	22815	17	12°474	0°720	22889	13	20°255	1°014	22963	17	6°219	3°539	23037	33	12°935	4°866
22726	12	0°859	25°763	22816	9	12°533	0°483	22890	26	20°343	1°096	22964	9	6°259	3°655	23038	25	12°957	4°134
22727	22	1°377	25°237	22817	11	13°092	0°213	22891	7	20°769	1°322	22965	5	6°577	3°929	23039	11	13°105	4°476
22728	6	1°643	25°129	22818	15	13°559	0°548	22892	8	21°924	1°283	22966	16	6°866	3°035	23040	15	13°233	4°808
22729	13	3°558	25°090	22819	32	14°053	0°084	22893	10	22°421	1°281	22967	10	6°968	3°155	23041	14	13°504	4°818
22730*	50	4°234	25°761	22820	11	14°404	0°469	22894	26	23°719	1°451	22968	20	7°126	3°373	23042	16	14°256	4°759
22731	14	4°755	25°215	22821	10	14°740	0°775	22895	13	24°414	1°966	22969	13	7°272	3°818	23043	13	14°366	4°803
22732	11	5°914	25°157	22822	13	15°214	0°401	22896	24	24°949	1°318	22970	26	7°341	3°421	23044	16	14°410	4°599
22733	22	6°996	25°444	22823	14	15°914	0°163	22897	9	25°221	1°299	22971	10	7°635	3°037	23045	10	15°030	4°222
22734	8	11°088	25°760	22824	7	16°089	0°282	22898	12	25°946	1°382	22972	14	7°818	3°086	23046	11	16°340	4°746
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22736	11	12°092	25°743	22826	11	16°348	0°390	22900	10	1°453	2°459	22974	9	8°913	3°104	23048	32	17°174	4°191
22737	8	12°507	25°961	22827	13	16°465	0°406	22901	8	1°944	2°462	22975	16	8°914	3°073	23049	20	17°304	4°849
22738	10	13°856	25°604	22828	11	16°705	0°868	22902	30	2°038	2°180	22976	15	9°034	3°754	23050	17	17°647	4°927
22739	22	13°859	25°171	22829	7	17°436	0°554	22903	6	2°487	2°642	22977	11	9°134	3°889	23051	13	17°679	4°837
22740	7	14°502	25°935	22830	20	17°583	0°218	22904	13	2°616	2°723	22978	14	9°243	3°306	23052	6	18°534	4°533
22741	19	14°962	25°236	22831	12	17°856	0°418	22905	7	4°522	2°502	22979	13	9°449	3°719	23053	23	19°331	4°377
22742	12	14°993	25°378	22832	13	18°705	0°774	22906	33	5°092	2°850	22980	7	9°486	3°183	23054*	42	19°780	4°166
22743	18	15°021	25°477	22833	15	18°712	0°532	22907	14	5°495	2°036	22981	13	10°036	3°860	23055	15	20°323	4°233
22744	19	15°409	25°627	22834	12	19°280	0°213	22908	24	5°560	2°502	22982	21	10°351	3°022	23056	7	20°344	4°131
22745	10	15°854	25°689	22835	8	19°504	0°353	22909	14	6°243	2°658	22983	10	10°447	3°449	23057	16	20°460	4°269
22746	12	15°865	25°924	22836	25	19°708	0°097	22910	26	6°603	2°876	22984	6	10°608	3°269	23058	16	20°561	4°176
22747	24	16°076	25°960	22837	11	20°335	0°252	22911	10	6°662	2°927	22985	19	11°243	3°881	23059	11	20°650	4°230
22748	13	16°124	25°582	22838	9	20°737	0°857	22912	8	7°027	2°405	22986	11	12°422	3°208	23060	12	20°706	4°069
22749*	34	16°361	25°124	22839	20	21°686	0°013	22913	11	7°348	2°770	22987	11	12°747	3°401	23061	13	20°706	4°906
22750	14	20°171	25°045	22840	28	22°456	0°673	22914	10	7°446	2°877	22988	11	12°812	3°686	23062	18	20°799	4°225
22751	13	20°316	25°951	22841	22	22°656	0°656	22915	17	8°066	2°898	22989	8	13°386	3°609	23063	15	20°923	4°250
22752	11	20°486	25°035	22842	11	22°783	0°162	22916	23	8°129	2°489	22990	9	13°561	3°537	23064	11	22°085	4°309
22753	7	21°204	25°215	22843	26	23°931	0°801	22917	9	8°909	2°587	22991	20	13°942	3°749	23065	11	22°233	4°191
22754	23	21°482	25°208	22844	14	24°174	0°722	22918	11	10°329	2°608	22992	12	14°105	3°934	23066	13	22°381	4°091
22755	15	22°060	25°565	22845	14	1°444	1°580	22919	13	10°579	2°246	22993	37	14°651	3°787	23067	9	22°416	4°665
22756	10	23°594	25°183	22846	15	1°815	1°681	22920*	41	10°588	2°471	22994	7	14°728	3°032	23068	20	22°595	4°469
22757*	21	24°405	25°833	22847	24	1°914	1°284	22921	23	11°265	2°459	22995	10	14°736	3°056	23069	8	22°740	4°548
22758	22	25°225	25°327	22848	13	3°777	1°722	22922	35	11°917	2°752	22996	11	15°413	3°011	23070	13	23°452	4°036
22759	9	25°297	25°382	22849	11	4°198	1°980	22923	42	12°807	2°568	22997	15	16°120	3°742	23071	14	23°643	4°724
22760*	30	25°387	25°279	22850	11	4°256	1°493	22924	7	13°365	2°576	22998	14	16°197	3°472	23072	15	24°844	4°528
22761	10	25°626	25°164	22851	17	4°293	1°622	22925	7	13°466	2°601	22999	11	16°691	3°593	23073	7	25°492	4°854
				22852	19	4°457	1°765	22926	11	14°086	2°638	23000	13	17°235	3°765	23074	7	25°859	4°606
				22853	13	4°788	1°558	22927	12	14°156	2°023	23001	8	17°797	3°512	23075	6	0°208	5°777
				22854	12	5°157	1°807	22928	9	14°184	2°725	23002	13	18°747	3°342	23076	15	0°943	5°014
				22855	12	5°165	1°228	22929	12	14°347	2°362	23003	11	19°330	3°985	23077	18	1°005	5°087
				22856	10	5°428	1°893	22930	30	14°742	2°883	23004	11	19°601	3°787	23078	10	2°736	5°549
				22857	12	5°785	1°593	22931	13	15°559	2°013	23005	11	20°090	3°991	23079	11	3°234	5°286
				22858	6	6°299	1°140	22932	22	15°672	2°332	23006	21	20°143	3°522	23080	6	3°865	5°465
				22859	12	6°880	1°760	22933	9	15°919	2°254	23007	10	21°426	3°587	23081	9	3°946	5°653
				22860	13	7°274	1°915	22934	23	16°085	2°953	23008	16	21°741	3°450	23082	14	3°994	5°651
				22861	12	7°387	1°030	22935	10	16°351	2°008	23009	14	22°444	3°848	23083	9	4°153	5°163
				22862	21	7°510	1°154	22936	9	16°448	2°532	23010	10	22°817	3°719	23084	18	4°334	5°471
				22863	13	7°638	1°005	22937	11	16°705	2°884	23011	16	23°246	3°166	23085	16	4°627	5°158
				22864	9	7°723	1°756	22938	12	17°909	2°190	23012	11	24°362	3°176	23086	25	5°709	5°807
				22865	16	8°893	1°104	22939	8	17°976	2°576	23013	23	24°471	3°275	23087	9	6°340	5°672
				22866	15	9°036	1°436	22940	7	18°203	2°608	23014	15	24°526	3°695	23088	6	6°429	5°343
				22867	10	9°107	1°515	22941	7	19°267	2°818	23015	16	24°978	3°104	23089	10	6°658	5°278
				22868	16	9°172	1°073	22942	6	19°494	2°613	23016	7	25°357	3°378	23090	9	6°681	5°272
				22869	12	10°174	1°916	22943	8	20°586	2°482	23017	16	25°545	3°873	23091	23	6°696	5°950
				22870	13	10°515	1°768	22944	10	20°952	2°462	23018	24	1°095	4°797	23092	24	7°333	5°746
				22871	10	11°142	1°725	22945	15	21°300	2°837	23019	7	1°632	4°156	23093	7	7°519	5°137
				22872	10	11°194	1°957	22946	29	21°471	2°315	23020	15	3°045	4°149	23094	16	8°679	5°071
				22873	9	11°720	1°902	22947	12	23°283	2°098	23021	7	3°256	4°771	23095	16	8°696	5°070
				22874	7	14°185	1°412	22948	11	23°786	2°734	23022	9	4°478	4°147	23096	16	8°697	5°671

23105	8	12°714	5'123	23179	11	15°884	6'155	23253	12	21°439	7°796	23327	25	24°902	8°430	23401	14	16°409	10°132
23106	36	12°804	5'763	23180	8	16°117	6'872	23254	17	21°469	7°896	23328	13	25°297	8°412	23402	11	17°596	10°655
23107	6	13°493	5'637	23181	9	16°228	6'499	23255	22	21°502	7°864	23329	7	1°267	9°830	23403	12	17°674	10°678
23108	14	13°540	5'158	23182	17	16°728	6'258	23256	15	22°396	7°814	23330	7	1°679	9°253	23404	23	18°319	10°769
23109	13	13°848	5'511	23183	15	17°052	6'978	23257	15	22°409	7°421	23331	8	1°826	9°152	23405	8	18°893	10°532
23110	14	13°857	5'274	23184	6	17°911	6'072	23258	8	22°605	7°684	23332	8	2°060	9°557	23406	11	18°971	10°057
23111	12	14°207	5'433	23185	8	18°188	6'527	23259	13	22°652	7°286	23333	15	2°351	9°179	23407	13	19°194	10°372
23112	17	14°619	5'400	23186	10	18°276	6'713	23260	13	23°876	7°969	23334	9	3°068	9°664	23408	20	19°226	10°238
23113	41	14°938	5'568	23187	6	18°935	6'208	23261	27	24°201	7°692	23335	9	4°734	9°211	23409	25	19°344	10°562
23114	39	15°137	5'471	23188	8	19°233	6'449	23262	11	24°205	7°113	23336	8	4°940	9°314	23410	23	19°955	10°533
23115	9	15°142	5'211	23189	26	19°430	6'085	23263	11	24°214	7°494	23337	8	6°583	9°488	23411	19	20°369	10°480
23116	10	15°214	5'740	23190	20	20°480	6'323	23264*	65	24°226	7°539	23338	9	8°016	9°524	23412	15	20°693	10°648
23117	25	15°423	5'185	23191	8	20°658	6'932	23265	13	25°088	7°262	23339	9	8°344	9°938	23413	6	20°907	10°544
23118	12	16°027	5'981	23192	22	20°665	6'654	23266	10	25°314	7°957	23340	22	8°347	9°389	23414	14	21°268	10°610
23119	6	16°082	5'642	23193*	40	20°991	6'865	23267	22	25°512	7°685	23341	9	8°351	9°902	23415	21	21°595	10°916
23120	12	16°460	5'951	23194	8	21°076	6'354	23268	17	25°935	7°327	23342	15	10°878	9°205	23416	14	23°344	10°335
23121	11	17°072	5'343	23195	12	21°308	6'563	23269	8	0°153	8°191	23343	11	11°255	9°385	23417	7	23°354	10°417
23122	9	17°387	5'859	23196	10	21°791	6'242	23270	11	0°694	8°901	23344	9	11°703	9°823	23418	7	23°396	10°963
23123	12	17°573	5'338	23197	24	22°317	6'127	23271	37	1°562	8°012	23345	10	11°787	9°197	23419	17	23°488	10°267
23124	12	17°740	5'185	23198	19	22°492	6'954	23272	8	1°721	8°447	23346	7	11°844	9°168	23420	8	23°826	10°682
23125	14	17°971	5'575	23199	11	22°728	6'350	23273	8	1°987	8°460	23347	13	11°994	9°246	23421	25	23°852	10°407
23126	10	19°376	5'201	23200	11	22°776	6'926	23274	34	2°327	8°583	23348	22	12°117	9°131	23422	7	24°255	10°803
23127	9	20°312	5'781	23201	14	23°127	6'856	23275	11	2°625	8°170	23349	15	12°989	9°649	23423	15	24°478	10°559
23128	12	21°632	5°012	23202	14	23°175	6°558	23276	30	3°385	8°885	23350	11	13°007	9°803	23424	11	25°181	10°285
23129	8	21°706	5°217	23203	10	23°602	6°486	23277	15	3°587	8°757	23351	13	14°123	9°898	23425	26	25°278	10°148
23130	6	21°902	5°535	23204	14	24°234	6°673	23278	12	5°894	8°559	23352*	39	15°284	9°624	23426	22	25°472	10°772
23131	16	22°377	5°516	23205	10	24°631	6°675	23279	10	6°359	8°508	23353	14	15°294	9°132	23427	20	25°558	10°270
23132	17	22°871	5°832	23206	33	24°638	6°328	23280	8	6°545	8°395	23354	14	15°733	9°617	23428	8	0°367	11°420
23133	7	22°904	5°473	23207*	40	0°661	7°830	23281	9	6°833	8°881	23355	12	16°917	9°572	23429	7	0°646	11°617
23134	6	23°370	5°819	23208	7	1°142	7°661	23282	9	6°950	8°338	23356	8	18°964	9°794	23430	27	1°065	11°571
23135	12	24°321	5°314	23209	9	1°522	7°366	23283	8	7°310	8°261	23357	12	19°374	9°766	23431	8	1°505	11°096
23136	9	24°807	5°561	23210	9	2°455	7°908	23284	13	8°085	8°494	23358	8	19°915	9°060	23432	7	1°904	11°710
23137	11	25°528	5°842	23211	7	3°212	7°229	23285	15	8°492	8°402	23359	11	20°004	9°658	23433	14	2°401	11°057
23138	11	0°395	6°518	23212	7	3°602	7°847	23286	12	8°683	8°710	23360	30	20°086	9°005	23434	15	2°566	11°868
23139	36	0°772	6°251	23213	16	4°297	7°825	23287	20	9°007	8°660	23361	8	20°086	9°613	23435	12	2°814	11°435
23140	20	0°867	6°484	23214	18	4°454	7°992	23288	14	9°414	8°960	23362	14	20°988	9°303	23436	22	3°358	11°635
23141	7	1°623	6°385	23215	12	5°377	7°802	23289	12	9°569	8°037	23363	11	21°337	9°116	23437	19	3°615	11°018
23142	27	1°722	6°038	23216	16	6°161	7°163	23290	15	9°786	8°549	23364*	69	21°855	9°176	23438	18	3°914	11°812
23143	22	2°425	6°669	23217	14	7°211	7°741	23291	8	9°826	8°255	23365	11	22°242	9°808	23439	14	4°465	11°805
23144	11	3°174	6°136	23218	20	7°406	7°224	23292	7	10°569	8°864	23366	6	22°453	9°203	23440	11	5°334	11°834
23145	16	3°224	6°129	23219	7	7°725	7°375	23293	6	10°586	8°661	23367	12	23°246	9°873	23441	12	5°636	11°857
23146*	46	3°844	6°556	23220	11	8°230	7°928	23294	7	10°714	8°773	23368	12	23°721	9°440	23442	15	6°470	11°730
23147	13	4°506	6°438	23221	15	8°626	7°212	23295	10	10°904	8°398	23369	12	24°076	9°425	23443	14	6°864	11°294
23148	17	4°726	6°923	23222	22	8°640	7°343	23296	6	11°314	8°019	23370	15	25°060	9°541	23444	8	7°016	11°830
23149	8	5°014	6°035	23223	6	8°816	7°305	23297	7	11°335	8°296	23371	16	25°497	9°836	23445	7	7°227	11°378
23150	20	5°540	6°092	23224	18	9°397	7°578	23298	13	11°737	8°815	23372	25	25°740	9°198	23446	11	8°617	11°242
23151	10	6°309	6°083	23225	11	9°593	7°882	23299	18	12°083	8°381	23373	20	1°131	10°664	23447	13	8°664	11°643
23152	20	6°673	6°959	23226	10	9°772	7°985	23300	24	12°540	8°779	23374	7	1°217	10°049	23448	13	10°601	11°608
23153	27	6°887	6°849	23227	17	9°937	7°435	23301	9	12°628	8°126	23375	6	1°277	10°259	23449	14	11°325	11°668
23154	10	6°899	6°063	23228	27	10°126	7°074	23302	12	12°654	8°521	23376	13	1°325	10°321	23450	10	11°374	11°793
23155	23	7°027	6°391	23229	15	10°190	7°156	23303	6	12°930	8°634	23377	26	1°626	10°188	23451	9	11°477	11°438
23156	14	7°057	6°751	23230	11	10°619	7°903	23304	37	13°128	8°144	23378	15	1°668	10°335	23452	7	12°413	11°677
23157	12	7°228	6°035	23231	8	11°021	7°266	23305	12	13°958	8°156	23379	13	2°796	10°334	23453	12	12°428	11°004
23158	15	7°345	6°297	23232	14	11°142	7°782	23306	16	14°147	8°526	23380	17	3°097	10°845	23454	17	12°528	11°250
23159	33	7°451	6°094	23233	16	11°543	7°401	23307	12	14°246	8°871	23381	17	4°195	10°645	23455	12	12°590	11°949
23160	13	7°785	6°451	23234	19	12°097	7°049	23308	15	14°887	8°547	23382	7	4°741	10°983	23456	20	13°683	11°490
23161	13	8°208	6°245	23235	10	12°415	7°184	23309	24	14°977	8°223	23383	26	4°757	10°129	23457	11	13°814	11°572
23162	14	8°526	6°187	23236	11	12°899	7°325	23310	8	15°437	8°710	23384	20	5°024	10°791	23458	12	14°356	11°140
23163	19	8°844	6°055	23237	12	12°975	7°136	23311	6	16°461	8°512	23385	22	5°035	10°456	23459	14	14°732	11°499
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23165	23	9°627	6°378	23239	15	14°728	7°915	23313	13	17°207	8°288	23387	8	6°215	10°010	23461	7	15°579	11°181
23166	11	11°355	6°360	23240	6	17°239	7°407	23314	24	17°255	8°608	23388	12	6°490	10°222	23462	8	15°785	11°635
23167	7	11°785	6°971	23241	17	17°434	7°112	23315	19	18°040	8°262	23389	9	7°888	10°082	23463	9	16°407	11°022
23168	22	11°877	6°941	23242	11	18°260	7°325	2											

23475	10	24°265	11°469	23549	8	10°843	13°474	23623	11	18°294	14°522	23697	8	3°733	16°493	23771	24	22°768	17°333
23476	29	24°533	11°362	23550	12	11°066	13°785	23624	22	18°869	14°775	23698	20	4°940	16°187	23772	6	23°555	17°790
23477	11	25°024	11°465	23551	28	11°561	13°149	23625	8	19°026	14°830	23699	9	5°064	16°973	23773	18	23°586	17°845
23478	8	25°176	11°056	23552	20	12°203	13°986	23626	12	19°493	14°638	23700	17	5°128	16°954	23774	11	24°323	17°662
23479	11	25°775	11°669	23553	9	12°360	13°074	23627	26	20°105	14°074	23701	20	5°267	16°704	23775	13	24°405	17°638
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23481	12	25°978	11°347	23555	12	13°860	13°648	23629	6	21°108	14°155	23703	22	7°457	16°246	23777	12	25°340	17°634
23482	10	0°341	12°637	23556	10	13°955	13°293	23630	11	21°146	14°055	23704	14	7°764	16°103	23778	10	0°071	18°815
23483*	35	1°097	12°396	23557	34	14°559	13°751	23631	14	21°185	14°913	23705	17	9°856	16°584	23779	10	0°728	18°924
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23485	13	2°414	12°105	23559*	49	15°181	13°057	23633	33	21°404	14°536	23707	15	10°487	16°657	23781	7	1°768	18°949
23486	37	2°661	12°118	23560	13	17°124	13°202	23634	8	21°809	14°684	23708	14	10°916	16°353	23782	9	2°952	18°919
23487	7	3°931	12°248	23561*	38	18°442	13°544	23635	12	22°689	14°629	23709	13	11°343	16°684	23783	23	3°331	18°146
23488	13	4°795	12°875	23562	30	19°188	13°396	23636	9	23°136	14°388	23710	22	12°350	16°399	23784	12	3°634	18°660
23489	9	4°834	12°852	23563	13	19°597	13°957	23637	8	23°658	14°765	23711	9	12°806	16°401	23785	13	4°231	18°780
23490	9	5°472	12°325	23564	16	20°370	13°866	23638	17	24°154	14°185	23712	24	13°888	16°770	23786	12	5°235	18°591
23491	9	5°947	12°144	23565	7	20°515	13°844	23639	14	24°475	14°104	23713	11	15°868	16°674	23787	17	5°838	18°995
23492*	30	6°225	12°893	23566	22	20°883	13°667	23640	17	24°793	14°659	23714	36	17°103	16°840	23788	10	6°358	18°594
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23494	17	6°866	12°913	23568	9	21°587	13°460	23642	13	25°505	14°576	23716	27	19°172	16°628	23790	10	6°402	18°107
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23496	11	8°325	12°357	23570	9	22°706	13°516	23644	18	25°646	14°541	23718	11	20°304	16°177	23792	9	7°064	18°264
23497	9	9°708	12°950	23571	6	22°833	13°305	23645	12	1°218	15°452	23719	10	20°980	16°696	23793	6	7°674	18°932
23498	14	9°908	12°762	23572	21	23°031	13°865	23646	11	2°164	15°352	23720	21	21°266	16°678	23794	8	8°148	18°484
23499	11	11°180	12°053	23573	15	23°065	13°894	23647*	43	2°465	15°690	23721	13	21°349	16°365	23795	9	8°607	18°422
23500	9	11°442	12°011	23574	15	23°108	13°015	23648	7	5°379	15°171	23722*	35	21°477	16°689	23796	10	9°121	18°590
23501	12	11°972	12°032	23575	15	23°195	13°256	23649	15	5°536	15°379	23723	13	21°664	16°075	23797	11	9°499	18°642
23502	17	13°506	12°050	23576	10	23°238	13°077	23650	34	5°735	15°416	23724	11	21°805	16°152	23798	15	10°097	18°846
23503	11	14°471	12°030	23577	12	23°817	13°515	23651	8	6°080	15°618	23725	7	22°477	16°923	23799	12	11°381	18°231
23504	10	14°714	12°959	23578	9	24°094	13°299	23652	14	6°116	15°658	23726	13	23°765	16°233	23800	19	12°889	18°982
23505	9	16°255	12°050	23579	14	24°868	13°475	23653	13	6°595	15°672	23727	16	23°786	16°408	23801	15	13°004	18°498
23506	12	16°264	12°767	23580	8	24°938	13°298	23654	15	7°273	15°964	23728	16	24°324	16°394	23802	10	13°654	18°907
23507	12	16°355	12°851	23581	11	25°659	13°772	23655	8	7°396	15°057	23729	10	25°126	16°827	23803	11	13°662	18°960
23508	25	16°716	12°739	23582	11	0°065	14°701	23656	16	7°547	15°202	23730	18	25°680	16°429	23804	12	14°178	18°428
23509	15	17°444	12°355	23583	6	0°733	14°538	23657	13	7°963	15°756	23731	22	25°704	16°825	23805	14	14°595	18°711
23510	18	18°047	12°973	23584	8	0°943	14°572	23658	24	8°204	15°542	23732	14	0°018	17°741	23806	7	15°025	18°631
23511	11	18°804	12°309	23585	13	1°266	14°516	23659	20	8°218	15°066	23733	7	0°155	17°329	23807	8	15°084	18°766
23512	12	19°504	12°431	23586	16	1°311	14°665	23660	19	8°502	15°025	23734	14	0°190	17°195	23808	14	15°846	18°569
23513	14	19°558	12°341	23587	9	1°527	14°687	23661	13	12°786	15°854	23735	11	0°316	17°638	23809	13	17°905	18°709
23514	20	20°027	12°623	23588	8	2°376	14°259	23662	8	12°867	15°460	23736	12	1°503	17°267	23810	9	17°986	18°796
23515	8	20°426	12°254	23589	6	2°556	14°079	23663	11	13°076	15°077	23737	16	1°640	17°928	23811	16	18°395	18°248
23516	29	20°467	12°804	23590	10	3°360	14°650	23664	12	13°092	15°911	23738	15	3°353	17°027	23812	12	18°786	18°371
23517	9	20°896	12°812	23591	10	5°397	14°892	23665	15	13°394	15°728	23739	18	3°477	17°389	23813	11	19°107	18°291
23518	14	21°664	12°452	23592	10	5°976	14°625	23666	19	13°470	15°184	23740	11	3°646	17°030	23814	7	19°741	18°248
23519	11	22°297	12°864	23593	11	6°101	14°720	23667	40	13°784	15°784	23741	10	3°707	17°009	23815	10	20°206	18°820
23520	25	22°808	12°385	23594	11	6°952	14°139	23668	9	14°535	15°786	23742	10	5°247	17°818	23816	26	20°265	18°855
23521	10	22°817	12°007	23595	12	7°125	14°185	23669	13	15°141	15°771	23743	11	5°471	17°625	23817	10	21°185	18°432
23522*	40	23°403	12°125	23596	18	7°627	14°224	23670	15	15°505	15°195	23744	13	6°033	17°531	23818	14	21°387	18°529
23523	15	23°835	12°871	23597	10	7°797	14°383	23671	11	15°512	15°828	23745	9	8°432	17°830	23819	11	21°416	18°802
23524	11	24°989	12°335	23598	8	7°843	14°813	23672	7	15°691	15°901	23746*	28	9°416	17°868	23820	16	21°958	18°711
23525	29	25°146	12°023	23599	14	8°324	14°888	23673	33	16°069	15°360	23747	14	9°576	17°238	23821	17	22°979	18°865
23526	11	25°215	12°304	23600	14	8°325	14°355	23674	29	16°746	15°282	23748	14	9°835	17°844	23822	32	23°009	18°148
23527	9	25°435	12°844	23601	24	8°723	14°216	23675	7	16°768	15°058	23749*	41	10°106	17°325	23823	11	23°441	18°560
23528	20	25°711	12°475	23602	18	8°961	14°419	23676	36	16°989	15°150	23750*	40	10°154	17°388	23824	10	23°675	18°973
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23530	24	0°645	13°286	23604	17	9°589	14°447	23678	7	17°418	15°678	23752	7	11°773	17°548	23826	8	24°081	18°558
23531	9	0°994	13°757	23605	8	10°303	14°361	23679	16	18°710	15°989	23753*	27	12°079	17°727	23827	30	25°076	18°418
23532	18	1°085	13°334	23606	6	10°459	14°894	23680	30	18°742	15°153	23754	14	12°141	17°191	23828	17	25°521	18°155
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23534	22	2°340	13°282	23608	24	11°846	14°821	23682	14	19°266	15°351	23756	15	12°413	17°615	23830	10	0°858	19°012
23535	19	2°442	13°729	23609	15	12°704	14°008	23683	7	19°955	15°500	23757	8	13°947	17°996	23831*	27	1°073	19°114
23536	7	3°188	13°968	23610	21	13°177	14°794	23684	8	20°321	15°886	23758	7	14°165	17°483	23832	9	1°352	19°255
23537	16	3°45																	

23845	9	10°104	19°094	23919	9	20°687	20°561	23993	9	11°087	22°539	24067	16	19°211	23°043	24141	9	6°119	25°998
23846	20	10°167	19°843	23920	15	20°831	20°779	23994	12	11°146	22°257	24068	8	19°225	23°160	24142	29	6°317	25°864
23847	8	10°236	19°939	23921	11	21°206	20°095	23995	10	11°390	22°618	24069	9	19°804	23°801	24143	11	6°462	25°456
23848	7	10°618	19°450	23922	13	21°315	20°695	23996	10	11°391	22°982	24070	7	19°954	23°493	24144	11	6°863	25°081
23849	15	11°052	19°782	23923	10	21°847	20°325	23997	10	11°506	22°280	24071	8	20°320	23°919	24145	7	8°216	25°936
23850	20	11°068	19°258	23924	7	22°946	20°524	23998	15	11°840	22°371	24072	13	20°571	23°685	24146	16	9°859	25°219
23851	12	11°246	19°687	23925	24	23°452	20°592	23999	8	12°233	22°324	24073	7	21°504	23°410	24147	15	10°799	25°544
23852	7	14°056	19°443	23926	11	24°844	20°603	24000	12	12°384	22°607	24074	25	21°540	23°753	24148	22	10°945	25°777
23853	9	14°684	19°240	23927	27	25°547	20°734	24001	28	13°513	22°054	24075	15	22°085	23°786	24149	22	12°298	25°392
23854	14	15°244	19°651	23928	30	25°864	20°869	24002	10	13°619	22°972	24076	15	22°094	23°746	24150	19	13°557	25°402
23855	16	15°324	19°932	23929	26	3°847	21°890	24003	17	15°725	22°781	24077	12	22°163	23°979	24151	14	14°746	25°146
23856	21	16°128	19°578	23930	8	4°449	21°693	24004	9	16°226	22°045	24078	12	23°118	23°165	24152	8	16°170	25°228
23857	15	16°158	19°565	23931	8	4°870	21°740	24005	15	16°403	22°730	24079*	40	24°134	23°055	24153	12	16°417	25°485
23858	29	16°693	19°371	23932	30	5°627	21°433	24006	7	18°627	22°357	24080	15	24°341	23°213	24154	12	16°590	25°396
23859	8	18°086	19°559	23933	28	6°406	21°293	24007	18	18°841	22°400	24081	21	25°261	23°593	24155	10	17°162	25°845
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23861	12	18°726	19°625	23935	14	6°911	21°110	24009*	30	19°350	22°831	24083	15	1°542	24°392	24157	12	17°240	25°841
23862	9	18°905	19°826	23936	10	7°317	21°349	24010	16	19°943	22°580	24084	7	1°815	24°473	24158	17	19°458	25°103
23863	11	19°398	19°098	23937	11	7°350	21°143	24011	13	19°963	22°641	24085	7	2°106	24°171	24159	27	22°478	25°146
23864	12	19°503	19°138	23938	8	7°570	21°941	24012	7	20°066	22°524	24086	16	2°786	24°223	24160	7	22°560	25°343
23865	19	19°736	19°283	23939	17	8°847	21°478	24013	11	20°776	22°842	24087*	44	3°315	24°543	24161	7	22°709	25°886
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23867	25	20°473	19°934	23941	7	10°915	21°987	24015	10	22°580	22°670	24089	23	4°294	24°724	24163	9	24°423	25°545
23868	11	20°721	19°972	23942	7	11°868	21°702	24016	24	22°725	22°378	24090	14	4°871	24°972	24164	7	24°485	25°666
23869	12	21°364	19°346	23943	13	12°425	21°549	24017	12	22°994	22°563	24091	15	5°215	24°749	24165	25	24°997	25°886
23870	8	21°586	19°272	23944	17	12°472	21°663	24018	7	23°494	22°468	24092	9	7°132	24°894				
23871	29	21°896	19°992	23945	12	12°933	21°878	24019	21	24°825	22°068	24093	17	7°887	24°922				
23872	16	22°176	19°282	23946	8	12°956	21°436	24020*	27	25°534	22°294	24094	12	8°041	24°806				
23873	12	23°785	19°575	23947	12	13°478	21°370	24021	14	0°904	23°366	24095	13	8°077	24°906				
23874	24	24°111	19°398	23948	13	13°736	21°603	24022	12	1°656	23°595	24096	24	8°849	24°952				
23875	13	24°377	19°882	23949	7	13°916	21°453	24023	11	2°035	23°791	24097	7	8°888	24°565				
23876	15	24°545	19°116	23950	13	14°620	21°562	24024	9	2°385	23°138	24098*	40	9°238	24°121				
23877	18	24°805	19°280	23951	9	16°154	21°215	24025	8	2°453	23°251	24099	10	9°983	24°889				
23878	12	24°821	19°531	23952	13	16°518	21°817	24026	29	3°785	23°577	24100	10	11°265	24°359				
23879	13	25°090	19°496	23953	9	17°204	21°501	24027	12	4°385	23°307	24101	13	11°420	24°047				
23880	8	25°712	19°616	23954	8	18°875	21°043	24028	23	4°633	23°746	24102	8	11°825	24°576				
23881	9	25°900	19°628	23955*	27	19°830	21°685	24029	33	5°197	23°564	24103	24	13°829	24°967				
23882	16	0°017	20°705	23956	12	20°328	21°914	24030	31	5°263	23°505	24104	15	15°279	24°781				
23883	13	0°521	20°502	23957	13	20°516	21°086	24031	12	5°896	23°744	24105	11	15°355	24°229				
23884	10	0°947	20°849	23958	9	20°557	21°974	24032	7	6°946	23°158	24106	14	15°475	24°944				
23885	10	1°042	20°203	23959	14	20°856	21°706	24033	7	7°223	23°514	24107	20	16°034	24°689				
23886	11	1°903	20°633	23960	10	21°061	21°478	24034	28	7°705	23°677	24108	14	16°346	24°569				
23887	21	2°235	20°982	23961	9	21°592	21°329	24035	14	8°492	23°460	24109	8	16°749	24°640				
23888	26	5°311	20°043	23962	7	21°802	21°669	24036	15	8°551	23°425	24110	8	16°837	24°257				
23889	14	6°590	20°787	23963	14	21°809	21°873	24037	11	8°680	23°363	24111	9	17°228	24°596				
23890	8	6°867	20°436	23964	13	21°879	21°782	24038	14	10°122	23°941	24112	9	17°880	24°469				
23891	13	7°405	20°803	23965	7	22°361	21°686	24039	10	10°550	23°881	24113	14	19°754	24°825				
23892	9	7°679	20°487	23966	14	22°424	21°094	24040	18	10°598	23°854	24114	9	20°210	24°666				
23893	9	7°884	20°837	23967	14	22°822	21°815	24041	12	10°870	23°314	24115	7	20°562	24°256				
23894	11	8°199	20°619	23968	30	24°619	21°465	24042	11	10°949	23°670	24116	8	20°785	24°566				
23895	8	8°402	20°118	23969	11	1°289	22°276	24043	16	11°251	23°772	24117	12	21°492	24°153				
23896	9	8°674	20°940	23970	31	2°324	22°674	24044	17	11°256	23°715	24118	11	21°627	24°018				
23897	22	9°759	20°906	23971	27	2°822	22°734	24045	8	11°763	23°488	24119	16	22°153	24°630				
23898	8	9°828	20°590	23972	10	2°865	22°089	24046	11	11°988	23°825	24120	13	22°269	24°618				
23899	21	10°030	20°188	23973*	41	2°916	22°124	24047	17	12°234	23°718	24121	24	22°361	24°296				
23900	8	11°044	20°826	23974	13	3°194	22°401	24048	14	12°779	23°243	24122	20	22°928	24°993				
23901	21	12°722	20°020	23975	20	4°427	22°421	24049	15	12°886	23°198	24123	24	23°030	24°230				
23902	9	13°037	20°794	23976	16	4°736	22°837	24050	14	13°123	23°106	24124	14	23°116	24°007				
23903	13	13°446	20°552	23977	15	5°086	22°052	24051	10	13°179	23°631	24125	25	23°443	24°638				
23904	9	13°538	20°855	23978	15	5°647	22°474	24052	9	13°871	23°845	24126	11	23°515	24°393				
23905	9	13°850	20°562	23979	9	5°986	22°135	24053	14	14°782	23°734	24127	13	24°437	24°753				
23906	13	14°265	20°619	23980	13	6°447	22°596	24054	8	14°934	23°169	24128	9	25°148	24°416				
23907	21	15°513	20°061	23981	8	6°495	22°791	24055	30	14°973	23°158	24129	8	25°184	24°183				
23908	8	15°804	20°646	23982	11	7°604	22°326	24056	11	15°505	23°942	24130	10	25°654	24°485				
23909	10	16°255	20°818	23983	12	7°756	22°509	24057	14	15°996	23°837	24131	13	25°728	24°768				
23910	13	16°830	20°729	23984	13	8°272	22°758	24058	9	16°010	23°504	24132	13	0°435	25°573				
23911	11	17°187	20°718	23985	22	8°583	22°798	24059	18	16°239	23°579	24133	11	1°969					

24227	15	9°177	1°470	24301	9	9°216	5°808	24375	8	4°526	9°650	24449	8	10°389	12°135	24523	14	10°728	16°767
24228	21	10°455	1°581	24302	13	9°312	5°228	24376	17	5°057	9°492	24450	8	11°295	12°399	24524	9	10°948	16°229
24229	15	10°456	1°209	24303	14	10°120	5°309	24377*	55	5°784	9°370	24451	13	15°091	12°265	24525	15	12°194	16°364
24230*	33	10°517	1°805	24304	21	10°287	5°381	24378	12	6°127	9°418	24452	7	18°615	12°525	24526	6	12°389	16°216
24231	5	11°455	1°544	24305	12	13°170	5°932	24379	12	6°166	9°132	24453	10	19°474	12°877	24527	13	15°230	16°352
24232	16	12°351	1°449	24306	6	13°744	5°543	24380	17	11°380	9°509	24454	13	20°224	12°264	24528	12	17°446	16°694
24233	21	12°426	1°406	24307	10	14°471	5°086	24381	16	11°382	9°529	24455	14	21°710	12°886	24529	14	17°534	16°993
24234	6	12°846	1°078	24308	7	14°767	5°064	24382	12	11°653	9°058	24456	7	22°874	12°269	24530	5	18°363	16°740
24235	14	13°802	1°951	24309	10	15°826	5°951	24383	11	11°944	9°050	24457	9	25°312	12°272	24531	14	20°271	16°546
24236	16	14°196	1°453	24310	7	16°427	5°697	24384*	23	22°189	9°066	24458	18	25°773	12°816	24532	13	22°344	16°302
24237	15	15°493	1°763	24311	17	18°872	5°096	24385	13	22°234	9°754	24459	13	1°395	13°947	24533	7	23°901	16°717
24238	14	15°948	1°826	24312	7	18°916	5°529	24386	10	23°794	9°142	24460	6	1°548	13°336	24534	13	25°161	16°482
24239	11	16°164	1°943	24313	9	25°687	5°716	24387	13	24°175	9°847	24461	25	12°273	13°949	24535	13	1°179	17°419
24240	25	16°812	1°769	24314	14	0°568	6°220	24388	8	1°797	10°342	24462	17	13°026	13°235	24536	7	6°581	17°502
24241	17	17°810	1°548	24315	23	2°894	6°388	24389	17	2°168	10°479	24463	11	15°687	13°066	24537	24	6°684	17°053
24242	12	17°857	1°501	24316	20	5°134	6°813	24390	8	2°794	10°622	24464	5	15°752	13°847	24538	11	7°931	17°863
24243	14	19°530	1°247	24317	13	8°205	6°714	24391	18	3°588	10°198	24465	16	16°377	13°461	24539	10	7°954	17°994
24244	9	2°829	2°426	24318	14	8°325	6°318	24392	14	3°789	10°820	24466	17	16°569	13°083	24540	10	7°971	17°940
24245	11	6°126	2°987	24319	9	8°887	6°629	24393	11	3°870	10°320	24467	8	22°745	13°783	24541	12	8°820	17°987
24246	13	6°633	2°833	24320	21	11°540	6°948	24394*	30	4°327	10°968	24468	10	23°203	13°114	24542	7	9°710	17°055
24247*	25	6°901	2°488	24321	6	13°669	6°629	24395	8	4°872	10°996	24469	13	24°423	13°451	24543	14	10°653	17°787
24248	12	7°535	2°916	24322	6	14°424	6°944	24396	12	5°242	10°353	24470	8	2°518	14°254	24544	14	13°481	17°215
24249	12	9°214	2°354	24323	10	14°554	6°305	24397	8	5°515	10°585	24471	8	3°169	14°717	24545	5	15°769	17°049
24250	7	14°549	2°423	24324	12	14°626	6°777	24398	6	6°583	10°472	24472	11	4°018	14°585	24546	22	17°417	17°255
24251	13	15°524	2°282	24325	13	14°646	6°496	24399	14	7°340	10°911	24473	6	5°536	14°716	24547	13	17°935	17°555
24252	14	15°808	2°762	24326	10	16°374	6°170	24400*	24	9°240	10°524	24474*	32	5°664	14°932	24548	11	18°464	17°951
24253	7	16°648	2°278	24327	6	16°545	6°670	24401*	38	10°340	10°096	24475*	26	5°838	14°154	24549	11	19°215	17°103
24254	8	19°684	2°642	24328	19	18°045	6°119	24402	13	12°878	10°513	24476	10	6°396	14°482	24550	12	19°481	17°954
24255	14	20°622	2°816	24329*	18	18°859	6°332	24403	14	12°897	10°562	24477	21	6°509	14°801	24551	19	21°126	17°985
24256	7	22°912	2°847	24330	9	19°743	6°679	24404	10	14°292	10°490	24478	22	6°993	14°111	24552	23	21°237	17°862
24257	15	24°398	2°150	24331	18	20°956	6°472	24405	9	14°327	10°583	24479	11	7°173	14°392	24553	12	21°296	17°016
24258	11	2°680	3°336	24332	11	21°121	6°353	24406	23	14°433	10°615	24480	8	7°614	14°871	24554	18	23°711	17°386
24259	5	3°186	3°159	24333	10	23°416	6°664	24407	5	15°047	10°633	24481	7	8°573	14°745	24555	11	23°899	17°675
24260	6	3°762	3°920	24334	6	25°052	6°554	24408	10	15°578	10°589	24482	8	12°173	14°882	24556	22	24°044	17°215
24261	10	4°998	3°529	24335	9	0°755	7°045	24409	14	17°857	10°839	24483	12	15°868	14°586	24557	12	24°567	17°459
24262	18	5°005	3°137	24336	17	2°475	7°758	24410	11	20°185	10°509	24484	19	16°608	14°924	24558	17	25°731	17°906
24263	9	5°609	3°614	24337*	51	2°496	7°605	24411	15	21°725	10°407	24485	12	18°119	14°744	24559	23	1°433	18°232
24264	5	7°549	3°192	24338	13	3°786	7°732	24412*	39	21°772	10°415	24486	11	18°137	14°739	24560	16	2°376	18°702
24265	16	8°058	3°773	24339	11	4°204	7°369	24413	11	22°489	10°751	24487	9	18°884	14°913	24561	20	3°505	18°471
24266	15	8°165	3°708	24340	8	5°521	7°172	24414	14	22°688	10°582	24488	9	20°522	14°427	24562	9	3°946	18°202
24267	16	9°372	3°065	24341	22	6°385	7°655	24415	13	25°443	10°784	24489	10	20°737	14°509	24563*	21	7°229	18°159
24268	13	9°455	3°104	24342	8	7°817	7°714	24416	19	25°967	10°781	24490	5	25°715	14°507	24564	13	7°684	18°466
24269*	35	10°437	3°238	24343	12	8°007	7°717	24417	5	1°768	11°239	24491*	12	1°579	15°612	24565	6	7°984	18°370
24270	9	10°689	3°401	24344	8	10°143	7°504	24418	22	2°860	11°424	24492*	13	1°700	15°099	24566*	33	9°746	18°104
24271	16	14°199	3°596	24345	12	10°812	7°044	24419	8	4°216	11°393	24493*	11	1°829	15°704	24567	6	11°670	18°660
24272*	30	15°347	3°907	24346	13	13°716	7°303	24420	14	5°242	11°911	24494	11	4°788	15°005	24568*	30	13°271	18°603
24273	15	16°918	3°307	24347	11	14°470	7°812	24421	6	6°069	11°279	24495	17	5°248	15°662	24569	15	13°463	18°650
24274	12	18°273	3°208	24348	10	18°025	7°296	24422	12	6°249	11°466	24496*	24	5°504	15°057	24570	11	14°775	18°699
24275*	22	19°628	3°442	24349	23	18°457	7°408	24423	13	8°057	11°625	24497	31	6°844	15°964	24571	16	16°863	18°159
24276*	36	22°497	3°885	24350	7	18°916	7°854	24424	16	8°793	11°873	24498	21	7°082	15°981	24572	8	17°571	18°694
24277	13	23°326	3°572	24351	6	25°932	7°452	24425	9	9°533	11°559	24499*	32	8°277	15°136	24573	12	17°576	18°740
24278	10	23°333	3°576	24352	17	3°186	8°482	24426	8	10°709	11°310	24500	24	8°603	15°867	24574	8	19°205	18°349
24279	11	24°512	3°210	24353*	35	4°318	8°628	24427	16	13°142	11°965	24501	20	8°688	15°161	24575	7	20°267	18°526
24280*	26	24°904	3°461	24354	16	4°714	8°245	24428*	32	13°672	11°188	24502	13	9°162	15°694	24576	12	21°407	18°974
24281	11	25°165	3°102	24355	15	6°715	8°067	24429	8	15°807	11°607	24503	6	12°227	15°784	24577	10	22°074	18°914
24282	9	0°818	4°556	24356	7	8°027	8°693	24430	26	17°572	11°380	24504	12	14°945	15°878	24578	15	22°822	18°921
24283	14	4°761	4°047	24357	18	9°027	8°801	24431	12	19°108	11°817	24505	5	16°549	15°902	24579	7	23°355	18°213
24284	8	6°068	4°065	24358	7	11°844	8°157	24432	5	19°385	11°407	24506	10	17°083	15°273	24580	8	23°701	18°867
24285	12	9°473	4°799	24359	6	13°045	8°487	24433	10	20°222	11°561	24507*	87	17°731	15°865	24581	15	24°959	18°412
24286	17	9°645	4°098	24360	6	15°108	8°768	24434	6	20°446	11°937	24508*	23	18°098	15°840	24582	5	25°376	18°632
24287	15	10°823	4°902	24361	6	16°023	8°370	24435	22	21°787	11°539	24509	10	18°752	15°223	24583	7	1°433	19°320
24288	6	12°735	4°555	24362	14	16°378	8°313	24436	6	22°217	11°607	24510	9	19°479	15°725	24584	14	2°553	19°466
24289	7	13°525	4°831	24363	14	16°842	8°269	24437	10	25°186	11°777	24511	9	19°675	15°276	24585	10	3°247	

24597	20	15°388	19°292	24671*	15	24°773	22°524	24808	10	9°368	0°979	24882	8	17°524	4°583	24956	7	15°658	8°568
24598	21	16°413	19°053	24672	14	25°385	22°708	24809	9	9°997	0°902	24883	8	17°751	4°369	24957	10	16°430	8°717
24599	9	16°473	19°136	24673	8	0°044	23°858	24810	10	13°597	0°387	24884	10	18°792	4°882	24958	8	18°581	8°110
24600	25	17°101	19°124	24674*	27	2°624	23°121	24811	9	13°606	0°856	24885	8	20°072	4°350	24959	8	19°086	8°533
24601	5	17°335	19°378	24675	12	3°762	23°642	24812	11	13°706	0°643	24886	9	21°541	4°288	24960	8	20°440	8°710
24602*	28	17°581	19°312	24676	12	4°754	23°920	24813	14	14°100	0°688	24887	10	22°233	4°330	24961	10	20°943	8°170
24603	9	19°110	19°851	24677	15	7°815	23°168	24814	12	18°793	0°850	24888	12	24°222	4°055	24962	10	23°427	8°528
24604	14	20°268	19°728	24678	5	7°824	23°074	24815	13	18°967	0°633	24889	22	24°791	4°591	24963	12	24°458	8°054
24605	6	21°737	19°114	24679	11	8°067	23°070	24816	14	19°943	0°109	24890	12	3°865	5°700	24964	18	25°494	8°039
24606	9	23°573	19°289	24680	13	8°089	23°602	24817	12	20°658	0°282	24891*	17	4°769	5°543	24965*	21	0°384	9°124
24607	5	25°960	19°610	24681	5	8°215	23°455	24818	12	20°956	0°985	24892	7	9°295	5°846	24966	12	0°440	9°820
24608	19	0°345	20°093	24682	13	12°590	23°041	24819	17	21°279	0°755	24893	8	9°922	5°083	24967	10	0°722	9°010
24609	14	1°913	20°668	24683	7	12°874	23°124	24820	13	22°128	0°861	24894	9	10°123	5°263	24968	6	2°001	9°174
24610	18	4°010	20°779	24684*	24	16°163	23°391	24821	17	23°212	0°710	24895	8	10°341	5°572	24969	12	2°397	9°888
24611*	22	4°328	20°910	24685	5	16°501	23°118	24822	14	23°919	0°309	24896	6	11°171	5°328	24970	8	4°958	9°767
24612*	29	5°430	20°609	24686	15	19°717	23°270	24823	12	4°935	1°285	24897	10	11°768	5°131	24971	10	7°028	9°341
24613*	25	5°861	20°379	24687	5	20°063	23°296	24824	13	5°560	1°521	24898	10	11°899	5°666	24972	12	9°488	9°620
24614	8	8°679	20°527	24688	25	22°238	23°539	24825	10	10°653	1°153	24899	7	13°470	5°446	24973	7	11°197	9°196
24615	7	9°338	20°387	24689	12	24°233	23°640	24826	11	12°462	1°115	24900	9	15°928	5°014	24974	10	11°760	9°544
24616	6	10°641	20°438	24690	12	25°295	23°209	24827	8	12°788	1°982	24901	10	20°147	5°206	24975	8	17°335	9°426
24617	13	11°045	20°243	24691	10	0°872	24°389	24828	11	13°069	1°629	24902	11	21°191	5°069	24976	9	17°480	9°875
24618	6	12°426	20°115	24692	10	1°537	24°313	24829	10	14°662	1°951	24903	9	23°089	5°728	24977	7	18°348	9°489
24619	13	13°906	20°013	24693	11	1°957	24°715	24830	6	19°733	1°425	24904	12	24°796	5°620	24978	8	18°450	9°175
24620	13	14°210	20°812	24694	14	4°524	24°088	24831	10	21°200	1°335	24905*	46	25°698	5°584	24979	8	20°000	9°329
24621	14	14°307	20°343	24695	10	8°285	24°814	24832	11	21°222	1°187	24906	13	1°586	6°686	24980	10	23°609	9°222
24622	16	15°429	20°335	24696	13	8°876	24°376	24833	12	22°874	1°060	24907	10	3°322	6°552	24981	12	25°168	9°009
24623	17	15°767	20°442	24697	16	10°759	24°977	24834*	22	23°539	1°657	24908	9	4°821	6°459	24982	10	0°711	10°822
24624	6	16°148	20°694	24698	13	11°461	24°154	24835*	22	23°565	1°017	24909	10	5°826	6°111	24983	13	0°911	10°647
24625	15	16°526	20°566	24699	28	12°423	24°065	24836	13	2°509	2°123	24910*	20	8°508	6°797	24984	11	3°691	10°811
24626	16	16°546	20°580	24700	13	12°465	24°898	24837	9	5°199	2°243	24911	6	14°673	6°945	24985	13	4°221	10°801
24627	13	17°114	20°865	24701	12	15°271	24°776	24838	12	6°101	2°142	24912	10	17°791	6°583	24986	9	5°140	10°867
24628	20	17°248	20°681	24702	9	15°287	24°781	24839	13	6°335	2°800	24913	8	20°443	6°721	24987	10	5°226	10°939
24629	11	17°995	20°939	24703	6	17°436	24°842	24840	13	9°001	2°252	24914	6	20°542	6°523	24988	12	7°648	10°205
24630	15	18°182	20°257	24704	7	20°223	24°523	24841	10	13°000	2°000	24915	10	20°881	6°700	24989	7	10°724	10°402
24631*	18	18°737	20°941	24705	10	23°060	24°069	24842	9	14°540	2°182	24916	8	21°265	6°524	24990	9	12°066	10°302
24632	18	20°776	20°867	24706	12	1°001	25°236	24843	11	16°907	2°401	24917	8	21°594	6°731	24991	7	14°290	10°788
24633	8	22°678	20°942	24707	13	3°531	25°940	24844	7	17°200	2°462	24918	12	23°997	6°888	24992	12	16°541	10°841
24634	7	24°692	20°740	24708	24	8°289	25°047	24845	11	19°568	2°122	24919	11	24°860	6°280	24993*	21	17°368	10°059
24635	14	25°955	20°954	24709	7	12°175	25°642	24846	9	21°776	2°448	24920	21	24°891	6°742	24994	8	17°696	10°352
24636	19	3°093	21°523	24710	21	12°430	25°668	24847	12	22°814	2°933	24921	8	4°742	7°215	24995	9	20°552	10°232
24637	19	6°134	21°279	24711	12	12°562	25°501	24848	15	23°893	2°059	24922	9	5°245	7°647	24996	10	21°299	10°709
24638	14	7°321	21°998	24712	11	16°156	25°117	24849*	40	0°621	3°902	24923	10	5°472	7°573	24997	18	23°907	10°709
24639	10	7°737	21°127	24713	5	18°596	25°251	24850	14	1°450	3°572	24924	8	8°917	7°757	24998	9	24°157	10°650
24640	15	8°259	21°036	24714	4	24°414	25°582	24851	11	2°639	3°190	24925	7	9°369	7°284	24999	16	24°396	10°021
24641	19	8°915	21°856					24852*	24	3°039	3°436	24926	8	10°420	7°042	25000	22	0°012	11°625
24642	15	12°432	21°531					24853	10	3°297	3°067	24927	11	10°467	7°226	25001	9	3°448	11°818
24643	16	13°035	21°622					24854	10	4°266	3°802	24928	16	10°723	7°678	25002	10	4°219	11°620
24644	9	13°452	21°641					24855	12	8°012	3°390	24929	9	12°373	7°121	25003	12	4°952	11°501
24645	5	15°659	21°166					24856	10	8°656	3°569	24930	8	13°386	7°814	25004	10	5°312	11°427
24646	13	16°450	21°240					24857	8	10°195	3°402	24931	11	13°770	7°236	25005	8	6°364	11°646
24647	10	17°015	21°317					24858	8	10°950	3°670	24932	13	14°117	7°901	25006	8	8°031	11°485
24648	5	17°726	21°916					24859	7	15°004	3°663	24933	8	14°846	7°268	25007	8	10°440	11°191
24649	15	19°403	21°063					24860	11	16°423	3°590	24934	9	16°619	7°542	25008*	14	12°001	11°310
24650	8	20°732	21°082					24861	6	17°788	3°748	24935	11	16°884	7°071	25009	8	14°041	11°218
24651	7	25°129	21°096					24862	8	19°856	3°733	24936	10	17°869	7°510	25010	7	14°883	11°191
24652	11	25°458	21°564					24863	8	20°894	3°862	24937	10	19°154	7°850	25011	8	15°288	11°993
24653	10	1°209	22°466					24864	10	22°790	3°314	24938	8	19°165	7°210	25012	7	15°815	11°606
24654	10	3°307	22°124					24865	10	3°244	4°555	24939	10	22°892	7°562	25013	7	16°420	11°793
24655*	17	4°019	22°339					24866	12	3°795	4°670	24940*	25	23°457	7°450	25014	11	17°339	11°992
24656	9	4°726	22°445					24867*	19	3°923	4°172	24941	12	24°085	7°544	25015	8	17°356	11°684
24657*	24	8°306	22°801					24868*	22	4°399	4°585	24942	9	24°874	7°156	25016	6	18°470	11°822
24658	4	8°339	22°942					24869*	20	7°119	4°208	24943	11	0°384	8°092	25017	7	18°711	11°081
24659	13	8°593	22°452					24870	8	7°660	4°314	24944	13	2°802	8°084	25018	8	19°059	11°250
24660	14	8°676	22°355					24871	11	9°063	4°510	24945	8	5°929	8°714	25019	8	20°313	11°358
24661	24	11°721	22°675					24872*	18	9°360	4°825	24946	13	6°017	8°898	25020	7	20°315	11°359
24662	16	12°607	22°347					24873	7	11°108	4°								

25030	8	4.415	12.243	25104	13	20.780	15.751	25178	10	25.139	18.225	25252*	13	17.656	22.913	25307	10	3.410	0.966
25031	9	4.725	12.631	25105	8	21.570	15.058	25179	10	0.414	19.055	25253*	41	17.920	22.577	25308*	45	3.896	0.789
25032*	20	5.096	12.485	25106	10	23.669	15.116	25180	16	1.169	19.055	25254*	14	19.943	22.782	25309	12	4.307	0.618
25033	7	5.334	12.960	25107	10	24.098	15.361	25181	10	4.342	19.699	25255	14	21.745	22.620	25310	15	4.472	0.836
25034	6	6.109	12.894	25108	14	0.649	16.419	25182	10	8.451	19.700	25256	8	23.007	22.677	25311	29	5.050	0.226
25035	6	6.215	12.998	25109	10	2.223	16.818	25183	8	10.966	19.059	25257	12	23.557	22.152	25312	20	5.054	0.122
25036	7	7.258	12.151	25110	10	3.490	16.560	25184	6	10.969	19.689	25258	23	0.650	23.719	25313	13	5.088	0.513
25037	8	7.662	12.369	25111	10	4.529	16.649	25185*	9	11.382	19.805	25259*	12	0.958	23.150	25314	9	5.517	0.993
25038	10	8.158	12.981	25112	11	5.225	16.105	25186	7	13.723	19.339	25260	12	2.662	23.792	25315	10	6.065	0.858
25039	7	9.837	12.503	25113*	12	5.996	16.901	25187	12	13.767	19.217	25261	12	3.727	23.342	25316	9	7.617	0.792
25040	8	10.071	12.569	25114	8	5.999	16.242	25188	9	14.900	19.629	25262	10	9.454	23.121	25317	14	8.046	0.925
25041	8	15.621	12.183	25115	7	6.997	16.672	25189	6	16.411	19.730	25263	10	10.040	23.650	25318	16	8.579	0.225
25042	8	16.431	12.724	25116	10	7.182	16.510	25190	7	16.497	19.028	25264	10	12.544	23.213	25319	15	9.306	0.972
25043	9	16.512	12.850	25117	10	9.650	16.290	25191	10	17.459	19.217	25265	8	14.109	23.392	25320	11	9.789	0.408
25044	7	17.068	12.562	25118	8	9.931	16.810	25192	14	20.659	19.701	25266*	35	15.274	23.799	25321	10	9.877	0.408
25045	10	18.381	12.751	25119	9	10.494	16.181	25193	10	21.392	19.957	25267*	12	17.339	23.470	25322	23	9.956	0.980
25046	7	20.431	12.460	25120	7	12.700	16.982	25194	9	4.525	20.151	25268	10	18.547	23.333	25323	12	10.455	0.656
25047	8	20.611	12.890	25121	11	12.852	16.315	25195	10	5.615	20.593	25269*	29	20.450	23.846	25324	9	10.511	0.636
25048	10	21.307	12.189	25122	7	12.918	16.998	25196	12	6.011	20.545	25270	10	22.495	23.758	25325	14	11.511	0.740
25049*	18	23.176	12.430	25123	8	13.990	16.216	25197	10	7.529	20.770	25271	9	5.648	24.073	25326	9	11.733	0.037
25050	12	23.449	12.134	25124	6	14.978	16.115	25198	14	7.853	20.338	25272	14	6.224	24.350	25327	12	11.778	0.423
25051	10	23.779	12.893	25125	8	18.297	16.166	25199	12	9.605	20.647	25273	9	10.250	24.264	25328	24	13.190	0.775
25052	8	1.011	13.875	25126	11	20.001	16.729	25200	9	10.505	20.381	25274	12	12.463	24.598	25329	29	14.503	0.021
25053	10	1.467	13.190	25127	10	24.091	16.027	25201*	22	11.792	20.370	25275*	10	12.668	24.482	25330	8	14.724	0.577
25054	12	2.701	13.512	25128	14	2.042	17.492	25202	8	13.735	20.392	25276	7	15.317	24.092	25331	7	14.765	0.472
25055	8	6.120	13.852	25129	10	2.236	17.780	25203	8	14.126	20.165	25277	10	17.273	24.583	25332	5	15.096	0.565
25056	7	7.171	13.324	25130	16	2.373	17.314	25204	10	14.273	20.642	25278	11	17.378	24.341	25333	11	15.373	0.689
25057	8	8.633	13.905	25131	9	2.909	17.552	25205	10	14.470	20.350	25279	15	18.938	24.338	25334	34	15.525	0.622
25058	7	9.415	13.043	25132	11	4.086	17.988	25206	7	16.067	20.747	25280	8	22.219	24.565	25335	9	16.009	0.034
25059	10	9.430	13.362	25133	14	4.618	17.688	25207	7	16.618	20.050	25281	10	22.392	24.340	25336	10	16.545	0.197
25060	9	12.461	13.475	25134	9	4.801	17.253	25208	6	17.325	20.501	25282	10	23.432	24.244	25337	20	17.147	0.998
25061*	21	14.643	13.560	25135	10	5.116	17.769	25209	12	18.253	20.310	25283	15	4.964	25.130	25338	30	18.417	0.115
25062	8	14.955	13.186	25136	9	5.477	17.476	25210	13	18.419	20.430	25284	8	6.759	25.375	25339	13	19.233	0.515
25063	8	17.911	13.961	25137	7	7.223	17.632	25211	11	19.694	20.377	25285	11	10.393	25.957	25340	15	20.664	0.253
25064	14	18.360	13.821	25138	10	7.804	17.011	25212	12	21.690	20.219	25286	10	12.349	25.435	25341	12	20.802	0.842
25065	7	20.596	13.410	25139	10	8.259	17.250	25213	12	22.092	20.161	25287	8	13.171	25.924	25342	5	21.647	0.775
25066	11	21.950	13.235	25140	14	8.503	17.174	25214	13	22.480	20.744	25288	11	13.502	25.372	25343	7	21.852	0.401
25067	10	22.168	13.449	25141	6	8.929	17.163	25215*	13	22.215	20.659	25289	9	14.018	25.436	25344	11	22.447	0.484
25068	10	22.818	13.510	25142	8	10.877	17.869	25216	9	2.912	21.124	25290*	18	15.258	25.364	25345	18	22.735	0.178
25069	12	23.958	13.350	25143	6	11.143	17.840	25217	10	3.527	21.209	25291	8	18.068	25.502	25346	21	23.724	0.385
25070	9	24.256	13.864	25144	7	12.398	17.460	25218	12	3.868	21.674	25292	14	20.680	25.091	25347	8	24.006	0.896
25071	10	5.331	14.093	25145	7	12.801	17.191	25219	13	4.355	21.054	25293	8	21.215	25.219	25348	30	25.064	0.265
25072	8	5.801	14.059	25146	9	14.461	17.289	25220	13	5.346	21.582	25294	23	22.943	25.042	25349	27	25.162	0.190
25073	9	6.447	14.850	25147*	17	14.673	17.744	25221	9	5.547	21.006	25295	21	24.130	25.218	25350	12	25.217	0.617
25074	8	7.239	14.257	25148	7	15.092	17.955	25222	12	6.054	21.889					25351	11	25.939	0.090
25075	8	8.422	14.529	25149	7	15.395	17.617	25223	10	6.686	21.547					25352	9	0.021	1.858
25076	6	10.608	14.014	25150	12	15.414	17.633	25224	8	8.056	21.089					25353	10	0.177	1.867
25077	10	12.114	14.930	25151	7	15.664	17.251	25225	10	8.404	21.749					25354	11	0.596	1.855
25078	9	15.896	14.819	25152	8	16.580	17.260	25226	9	9.755	21.535					25355	24	0.703	1.277
25079	7	18.471	14.720	25153	9	16.686	17.500	25227	10	10.311	21.238					25356*	44	1.375	1.860
25080*	16	20.156	14.228	25154	7	17.035	17.136	25228	10	12.477	21.223					25357	44	1.386	1.224
25081	18	24.255	14.949	25155	18	17.642	17.238	25229	6	13.823	21.840					25358*	7	1.394	1.904
25082	8	4.418	15.758	25156	14	21.568	17.172	25230	8	14.191	21.569					25359	15	2.931	1.288
25083	12	4.877	15.866	25157	15	24.351	17.743	25231	9	14.275	21.806					25360	5	3.316	1.080
25084	11	5.199	15.979	25158	12	3.320	18.508	25232	9	15.549	21.833					25361	19	4.322	1.872
25085	9	6.829	15.692	25159	10	3.742	18.725	25233*	12	15.918	21.420					25362	17	4.889	1.754
25086	6	7.291	15.975	25160	11	4.559	18.555	25234	12	18.781	21.821					25363	14	4.958	1.753
25087	7	9.200	15.058	25161	7	6.629	18.580	25235	14	19.343	21.655					25364	25	6.112	1.829
25088	12	9.250	15.182	25162	10	7.400	18.573	25236	14	24.905	21.557					25365	14	6.630	1.516
25089	8	9.525	15.933	25163	7	8.116	18.280	25237	15	1.629	22.380					25366	25	7.623	1.373
25090	7	10.345	15.799	25164	6	8.799	18.545	25238*	14	3.190	22.659					25367	13	9.373	1.318
25091	8	12.339	15.939	25165	8	9.397	18.189	25239	14	3.813	22.835					25368	25	9.453	1.359
25092	13	13.167	15.020	25166	10	9.708	18.631	25240	12	4.494	22.034					25369	33	9.572	1.436
25093	9	13.348	15.169	25167	12	12.419	18.811	25241	13	5.371	22.004					25370	25	10.324	1.712
25094	7	14.295	15.149	25168	6	14.993	18.871	25242*	18	6.103	22.970					25371	27	10.518	1.971
25095	7	15.760	15.0																

25381	14	16°9'15	1'198	25455	15	25'333	2'135	25529	12	18°7'14	4'263	25603*	36	22°13'1	5'715	25677	12	4'401	7'765
25382	12	17°7'36	1'123	25456	11	25'962	2'538	25530	12	18°9'45	4'286	25604	8	23°9'10	5'564	25678	8	4'589	7'689
25383	9	18°2'79	1'607	25457	15	0'668	3'519	25531	12	19°0'04	4'732	25605	9	24°0'16	5'704	25679	12	5'046	7'513
25384	9	18°3'95	1'345	25458	14	0'684	3'139	25532	11	19°4'79	4'079	25606*	78	24°6'49	5'358	25680	15	5'284	7'854
25385	16	18°5'41	1'968	25459	12	2'231	3'792	25533	15	19°5'74	4'654	25607	14	25°2'75	5'963	25681	12	6'932	7'964
25386	15	18°8'38	1'024	25460	12	2'571	3'422	25534	14	19°8'34	4'701	25608	23	25°4'78	5'988	25682	17	8'548	7'620
25387	19	18°8'44	1'150	25461	9	3'415	3'548	25535	7	20°4'78	4'692	25609	18	25°5'95	5'295	25683	12	8'798	7'036
25388	22	20°5'02	1'852	25462	17	4'467	3'798	25536	25	21°3'27	4'253	25610	13	0'695	6'601	25684	12	10°0'34	7'802
25389	13	20°5'75	1'653	25463	17	4'564	3'024	25537	11	21°9'94	4'837	25611	11	2'354	6'196	25685	6	10°0'79	7'063
25390	10	20°9'11	1'265	25464	8	5'545	3'733	25538	7	22°0'21	4'389	25612	11	2'466	6'725	25686	12	10°2'20	7'038
25391	21	21°1'75	1'643	25465	15	5'689	3'877	25539	22	22°3'45	4'400	25613	13	2'605	6'636	25687	18	11°0'02	7'986
25392	21	21°6'09	1'758	25466	20	5'729	3'961	25540	16	22°8'64	4'037	25614	8	2'764	6'577	25688	13	11°0'65	7'256
25393	8	22°3'78	1'315	25467	8	6'332	3'502	25541	6	22°9'12	4'488	25615	24	2'787	6'413	25689	26	11°1'15	7'445
25394	9	22°8'01	1'902	25468	7	6'776	3'308	25542	15	22°9'76	4'121	25616	35	2'824	6'874	25690	23	13°4'36	7'117
25395	13	23°1'81	1'050	25469	10	6'956	3'151	25543	21	23°7'21	4'687	25617	20	3'915	6'766	25691	11	13°4'49	7'086
25396	11	23°3'00	1'436	25470	8	7'007	3'217	25544	14	24°1'48	4'962	25618	10	4'314	6'664	25692	10	14°2'89	7'255
25397	14	25°4'42	1'058	25471	7	7'224	3'506	25545	14	24°6'72	4'653	25619	6	5'386	6'700	25693	8	14°5'36	7'855
25398	10	0'295	2'775	25472	25	7'455	3'262	25546	27	24°6'79	4'387	25620	16	5'415	6'338	25694	16	15°0'95	7'989
25399	8	1'559	2'484	25473	18	7'873	3'135	25547	13	25°1'49	4'906	25621	35	6'316	6'475	25695	7	15°6'95	7'791
25400	28	1'734	2'250	25474	8	9'099	3'138	25548	7	25°4'13	4'590	25622	10	6'523	6'338	25696	9	15°9'93	7'741
25401	6	2'764	2'447	25475	21	10°5'69	3'851	25549	17	25°5'26	4'768	25623	23	6'844	6'955	25697	9	16°0'40	7'127
25402	14	3'468	2'512	25476	12	11°2'61	3'286	25550	15	25°9'27	4'908	25624	10	8'374	6'557	25698	6	16°0'85	7'803
25403	8	3'798	2'546	25477	8	11°4'34	3'608	25551	13	0'897	5'518	25625*	39	9'277	6'281	25699	10	16°6'16	7'424
25404	22	3'856	2'814	25478	7	11°4'64	3'665	25552	14	1°0'19	5'906	25626	15	10°0'28	6'648	25700	11	17°2'28	7'519
25405	19	3'996	2'960	25479	14	12°3'12	3'789	25553	6	1°2'33	5'428	25627	17	10°1'75	6'229	25701	8	17°4'91	7°047
25406	13	4'456	2'446	25480	13	12°8'43	3'773	25554	7	1°5'50	5'397	25628	5	10°2'69	6'415	25702	13	17°4'94	7'323
25407	9	4'684	2'536	25481	11	13°1'78	3'942	25555	6	1°5'77	5'501	25629	12	10°2'77	6'312	25703	26	17°8'46	7'289
25408	9	4'690	2'592	25482	5	13°3'17	3'399	25556	13	2°4'14	5'844	25630	17	10°2'89	6'509	25704	12	18°4'85	7'591
25409	6	4'792	2'681	25483	5	13°9'82	3'972	25557	20	2°7'08	5'762	25631	7	11°6'21	6'062	25705	7	19°4'12	7'908
25410*	65	6°05'8	2'814	25484	5	14°2'83	3'159	25558*	70	3°5'98	5'704	25632	10	12°2'44	6'518	25706	15	19°4'44	7°964
25411	14	7°291	2'528	25485	5	14°8'28	3'522	25559	14	3°8'46	5'134	25633	16	13°8'73	6'294	25707	10	19°5'04	7°765
25412	10	8°537	2'542	25486	35	16°2'56	3'425	25560	11	4°444	5°024	25634	6	15°2'82	6'246	25708	14	19°6'46	7°525
25413	37	8°6'03	2°076	25487	21	16°6'19	3'167	25561	10	4°7'67	5°433	25635	14	15°5'65	6'180	25709	8	19°8'46	7°425
25414	10	9°405	2°218	25488	16	17°5'10	3°975	25562	21	4°7'86	5°982	25636	6	15°7'14	6'120	25710	5	21°9'59	7°535
25415	10	9°886	2°778	25489	6	18°9'33	3°243	25563	6	5°967	5°682	25637	8	15°7'77	6'426	25711	16	22°0'04	7°193
25416	21	10°099	2°309	25490	6	19°1'80	3°697	25564	5	6°068	5°713	25638	10	16°0'56	6'472	25712	11	22°0'19	7°142
25417	10	10°475	2°682	25491	7	19°8'27	3°014	25565	8	6°173	5°046	25639	14	16°6'29	6'523	25713	23	22°3'48	7°167
25418	5	11°514	2°935	25492	6	20°0'74	3°320	25566	26	6°192	5°690	25640	10	16°8'62	6'851	25714	11	22°3'77	7°681
25419	13	11°977	2°303	25493	12	20°5'89	3°812	25567	11	6°511	5°742	25641	6	16°8'63	6'302	25715	12	22°3'99	7°242
25420	5	12°074	2°346	25494	21	20°7'18	3°618	25568	22	7°458	5°584	25642	12	16°9'46	6'657	25716	23	22°8'83	7°678
25421	17	12°593	2°737	25495	22	20°7'83	3°374	25569	12	8°1'40	5°541	25643	9	17°2'69	6'186	25717	7	24°2'17	7°125
25422	12	13°1'76	2°430	25496	14	20°9'41	3°835	25570	31	8°5'61	5°248	25644	13	17°3'86	6'791	25718	29	24°4'77	7°402
25423	7	14°1'24	2°342	25497	12	21°8'81	3°750	25571	13	8°7'46	5°196	25645	11	17°8'73	6'782	25719	5	24°8'46	7°078
25424	8	14°1'66	2°437	25498	25	23°3'97	3°615	25572	7	9°4'22	5°636	25646	10	17°9'43	6'920	25720	11	25°0'47	7°885
25425	10	14°2'82	2°448	25499	12	24°5'10	3°858	25573	15	9°7'90	5°699	25647	12	18°0'90	6'978	25721	14	25°1'23	7°635
25426	21	14°4'63	2°373	25500	7	24°9'05	3°304	25574	6	10°1'77	5°410	25648	13	18°6'30	6'027	25722	9	0°4'73	8°776
25427	11	15°2'18	2°612	25501	9	25°3'78	3°934	25575	33	11°7'59	5°809	25649	14	19°3'03	6°531	25723	18	1°4'13	8°675
25428	5	15°3'46	2°756	25502	20	0°1'40	4°536	25576	31	11°8'86	5°904	25650	8	19°8'84	6°037	25724	9	1°5'79	8°417
25429	5	15°4'03	2°180	25503	7	1°4'06	4°299	25577	15	11°9'82	5°057	25651	17	19°9'42	6°093	25725	12	1°7'85	8°881
25430	11	15°4'48	2°259	25504	8	1°5'23	4°394	25578	11	12°0'34	5°931	25652	12	20°2'02	6°224	25726	24	2°4'25	8°184
25431	8	15°4'53	2°886	25505	5	2°0'84	4°019	25579	30	13°3'95	5°856	25653	7	20°7'21	6°008	25727	5	2°8'50	8°536
25432	11	15°6'07	2°674	25506	24	2°1'05	4°222	25580	6	13°6'29	5°452	25654	12	21°6'35	6°383	25728	7	3°0'71	8°276
25433	14	16°0'65	2°117	25507	8	2°5'50	4°735	25581	6	14°5'14	5°501	25655	25	21°9'74	6°059	25729	31	3°4'54	8°144
25434	13	16°1'82	2°860	25508	36	2°6'80	4°742	25582	12	14°8'08	5°168	25656	6	22°0'26	6°293	25730	5	3°7'18	8°886
25435	25	16°4'59	2°711	25509	10	3°0'94	4°750	25583	8	14°9'04	5°797	25657	19	22°2'00	6°705	25731	17	3°9'40	8°872
25436	15	16°9'46	2°643	25510	10	4°8'39	4°657	25584	7	14°9'86	5°666	25658	12	22°6'77	6°655	25732	12	3°9'41	8°676
25437	6	17°6'65	2°289	25511	10	5°5'02	4°536	25585	14	15°0'03	5°350	25659	7	23°0'97	6°496	25733	17	4°8'18	8°634
25438	8	17°8'85	2°072	25512	10	5°9'03	4°855	25586	8	15°8'32	5°904	25660*	49	23°4'53	6°920	25734	8	5°0'74	8°726
25439	16	18°2'41	2°730	25513	11	6°6'25	4°351	25587	9	16°3'74	5°718	25661	10	24°0'07	6°577	25735	16	5°6'64	8°077
25440	10	18°5'92	2°215	25514	14	6°8'31	4°294	25588	11	16°5'58	5°997	25662	14	24°1'22	6°906	25736	37	5°6'83	8°782
25441	12	18°9'68	2°333	25515	20	7°0'79	4°286	25589	7	16°8'06	5°890	25663	10	24°3'05	6°267	25737	12	5°9'15	8°569
25442	11	19°6'37	2°653	25516*	36	8°1'54	4°707	25590	26	17°1'35	5°949	25664	7	0°2'58	7°379	25738	37	6°5'02	8°680
25443	8	19°6'73	2°738	25517	12	9°7'87	4°138	25591	6	17°8'21	5°499								

25751	20	9°9'17	8°8'29	25825	8	24°0'56	9°1'97	25899	32	1°3'71	11°8'26	25973	20	13°2'14	12°28'1	26047	5	22°2'47	13°4'60
25752	8	9°9'98	8°6'87	25826	10	24°0'57	9°5'25	25900	8	1°8'09	11°2'47	25974	22	13°3'57	12°0'30	26048	17	22°3'17	13°5'92
25753	18	11°1'47	8°7'68	25827	13	24°5'66	9°4'09	25901	32	2°0'90	11°8'73	25975	7	13°6'34	12°3'21	26049	9	22°4'53	13°7'17
25754	14	11°7'69	8°8'40	25828	13	24°8'55	9°9'73	25902	31	2°1'34	11°6'40	25976	8	14°3'87	12°5'64	26050	13	24°0'52	13°6'72
25755	14	11°8'58	8°7'24	25829	7	25°0'96	9°7'37	25903	18	2°2'36	11°5'94	25977	10	14°5'97	12°5'62	26051	16	24°5'18	13°2'40
25756	5	11°9'44	8°2'25	25830	8	25°3'09	9°1'26	25904	12	3°9'52	11°3'83	25978	26	15°0'58	12°3'08	26052	24	25°4'92	13°4'90
25757	14	11°9'75	8°5'12	25831	14	25°5'25	9°8'94	25905	9	3°9'80	11°0'67	25979	5	15°3'94	12°5'97	26053	10	25°7'37	13°5'33
25758	19	12°1'87	8°5'64	25832	20	25°7'70	9°3'70	25906	8	4°1'04	11°1'74	25980*	42	15°4'37	12°8'08	26054	17	25°9'18	13°3'68
25759	15	12°6'67	8°7'05	25833	7	25°9'40	9°4'35	25907	10	4°4'09	11°2'68	25981*	40	15°8'49	12°6'50	26055	12	25°9'51	13°4'38
25760	5	13°7'68	8°5'86	25834	34	1°9'38	10°8'24	25908	13	4°6'13	11°9'54	25982	10	16°1'04	12°6'83	26056	10	0°3'94	14°5'41
25761	25	13°9'58	8°4'72	25835	15	2°1'85	10°7'63	25909	14	4°7'22	11°3'18	25983	8	16°6'92	12°3'59	26057	7	1°9'80	14°6'67
25762	7	14°9'84	8°8'85	25836	28	2°4'06	10°1'35	25910	7	4°9'73	11°7'39	25984	12	16°9'12	12°8'30	26058	7	2°0'26	14°5'66
25763	8	16°1'30	8°8'87	25837	13	3°5'57	10°3'29	25911	11	5°5'94	11°0'95	25985	13	18°4'37	12°3'96	26059	6	2°1'12	14°8'92
25764	16	16°7'66	8°9'49	25838	8	3°8'06	10°9'13	25912	21	5°6'08	11°0'42	25986	6	18°5'40	12°3'98	26060	13	2°3'07	14°0'33
25765	6	16°7'85	8°5'18	25839	13	4°3'70	10°7'62	25913	11	5°7'57	11°0'73	25987	13	18°6'40	12°6'10	26061	6	2°4'68	14°1'32
25766	6	17°2'19	8°9'35	25840	12	4°8'37	10°4'28	25914	9	6°7'30	11°5'57	25988	12	18°7'46	12°8'54	26062	5	4°6'13	14°2'73
25767	35	18°3'65	8°8'90	25841	34	4°8'94	10°9'26	25915	22	7°1'04	11°6'57	25989	5	19°9'42	12°0'85	26063	24	4°7'46	14°7'02
25768	14	18°7'14	8°7'16	25842	6	4°9'73	10°7'89	25916	17	8°2'86	11°8'00	25990	13	20°1'66	12°5'67	26064	16	5°8'75	14°8'35
25769	9	19°8'91	8°2'75	25843	7	5°0'17	10°8'88	25917	7	8°7'16	11°3'56	25991	12	22°5'16	12°9'81	26065	15	6°6'62	14°3'82
25770*	53	20°4'37	8°5'09	25844	11	5°2'26	10°2'56	25918	32	9°6'24	11°7'13	25992	14	22°5'21	12°2'79	26066	17	6°9'25	14°8'55
25771	12	20°7'58	8°5'65	25845	13	5°2'42	10°4'28	25919	12	10°1'33	11°5'31	25993	7	23°2'44	12°4'47	26067	6	6°9'46	14°0'59
25772	12	20°9'43	8°4'95	25846	12	5°3'17	10°6'23	25920	13	10°3'21	11°6'84	25994	8	24°5'03	12°6'89	26068*	60	7°9'86	14°7'95
25773	6	21°7'08	8°1'64	25847	18	5°5'62	10°0'81	25921	17	11°2'66	11°4'26	25995	7	24°7'72	12°6'17	26069	5	8°2'17	14°3'94
25774	8	21°9'56	8°1'05	25848	9	6°3'96	10°7'43	25922	8	11°2'94	11°3'84	25996	17	25°4'26	12°4'58	26070	8	8°3'49	14°1'21
25775	20	22°0'75	8°8'43	25849	8	6°6'07	10°1'89	25923	20	12°4'17	11°0'07	25997	8	25°8'02	12°3'47	26071	24	8°5'04	14°9'07
25776	30	23°7'66	8°4'52	25850	7	7°5'90	10°1'34	25924*	47	13°6'74	11°3'85	25998	24	25°9'61	12°2'16	26072	34	9°0'59	14°6'89
25777	9	24°9'17	8°4'89	25851	11	8°1'65	10°5'18	25925	11	14°2'52	11°8'31	25999	19	0°0'50	13°3'77	26073	9	9°1'27	14°1'57
25778	10	25°0'74	8°8'95	25852	23	8°1'67	10°8'99	25926	7	16°1'54	11°3'66	26000	15	0°2'72	13°5'83	26074	24	9°2'30	14°2'00
25779	7	25°2'37	8°9'19	25853	7	8°4'48	10°4'23	25927	10	16°1'83	11°1'64	26001	8	0°5'89	13°6'61	26075	10	9°3'32	14°2'28
25780	14	25°4'65	8°7'86	25854	6	8°7'84	10°6'34	25928	8	16°5'91	11°3'16	26002	9	0°6'88	13°8'67	26076	6	9°8'37	14°6'39
25781	35	25°5'96	8°8'37	25855	13	9°4'80	10°1'34	25929	15	16°7'62	11°0'56	26003	21	0°9'17	13°6'30	26077*	62	9°9'09	14°1'96
25782	25	25°8'79	8°6'37	25856	17	9°5'74	10°7'14	25930	14	19°0'12	11°3'92	26004	6	1°6'37	13°8'73	26078	15	10°3'52	14°2'81
25783	5	1°2'80	9°3'43	25857	19	9°8'18	10°1'37	25931	8	19°7'24	11°5'45	26005	7	1°9'69	13°9'20	26079	13	10°8'75	14°0'10
25784	19	1°6'10	9°3'61	25858*	64	9°8'42	10°4'29	25932	12	20°3'95	11°5'01	26006	23	2°0'44	13°4'46	26080	16	10°9'26	14°1'03
25785	13	1°6'24	9°2'17	25859	6	10°1'27	10°8'23	25933	23	21°2'02	11°1'44	26007	15	2°3'51	13°9'52	26081	17	11°1'45	14°7'90
25786	11	2°2'65	9°9'46	25860	8	10°2'48	10°4'07	25934	8	23°1'82	11°8'48	26008	11	3°8'72	13°7'18	26082	11	11°2'63	14°5'91
25787	12	2°4'21	9°8'49	25861	15	10°3'76	10°9'42	25935	9	25°2'20	11°8'37	26009	8	4°2'11	13°2'63	26083	16	12°4'22	14°8'57
25788	22	3°1'55	9°1'15	25862	12	10°9'37	10°8'64	25936	19	25°2'22	11°1'96	26010	10	4°2'71	13°9'19	26084*	47	12°9'64	14°3'73
25789	9	4°0'16	9°5'56	25863	14	11°1'05	10°2'83	25937	6	25°3'60	11°0'57	26011*	26	4°4'50	13°2'84	26085	13	14°3'12	14°8'76
25790	11	4°6'41	9°2'74	25864	18	12°2'56	10°9'93	25938	13	25°6'39	11°0'55	26012	13	4°8'26	13°9'46	26086	16	14°4'78	14°2'41
25791	33	5°0'12	9°6'66	25865	7	12°2'89	10°3'44	25939	21	25°8'33	11°7'69	26013	11	4°9'44	13°3'91	26087	17	14°7'01	14°0'75
25792	25	5°4'99	9°7'79	25866	17	12°3'57	10°9'21	25940	5	1°0'34	12°7'08	26014*	26	4°9'95	13°6'29	26088	6	16°7'63	14°5'20
25793	15	5°5'36	9°4'62	25867	11	12°5'97	10°2'99	25941	7	1°0'38	12°3'50	26015	14	5°1'56	13°2'14	26089	16	17°0'12	14°4'71
25794	13	6°0'53	9°6'42	25868	5	13°0'89	10°6'93	25942	8	1°0'45	12°7'44	26016	11	5°1'82	13°8'34	26090	6	17°1'08	14°5'23
25795	14	6°2'66	9°9'51	25869	8	13°1'86	10°0'49	25943	5	1°1'17	12°6'92	26017	6	5°3'89	13°4'06	26091	13	18°1'83	14°2'71
25796*	38	6°3'18	9°1'23	25870	21	13°4'02	10°3'44	25944*	29	1°2'52	12°5'50	26018	5	6°2'08	13°3'65	26092	12	18°3'69	14°7'03
25797	9	7°0'02	9°9'89	25871	7	13°8'04	10°2'36	25945	24	1°5'14	12°2'53	26019	8	6°2'13	13°2'86	26093	14	18°5'04	14°0'06
25798	7	7°5'04	9°1'34	25872	13	14°7'06	10°4'07	25946	17	1°8'56	12°9'97	26020	16	6°5'03	13°6'25	26094	16	18°5'60	14°3'82
25799	18	7°7'36	9°1'96	25873	15	16°0'76	10°9'94	25947	9	2°0'47	12°8'99	26021	16	6°6'72	13°3'65	26095	23	18°6'59	14°2'69
25800	13	9°5'98	9°4'79	25874	7	16°1'13	10°9'10	25948	7	2°8'22	12°9'26	26022	11	6°9'26	13°2'10	26096	8	18°8'54	14°9'12
25801	14	10°2'46	9°1'87	25875	28	16°3'56	10°2'05	25949	7	2°9'97	12°6'58	26023	14	7°3'63	13°1'29	26097	20	19°3'06	14°8'47
25802	11	10°5'67	9°3'53	25876	6	16°3'98	10°3'07	25950	9	3°7'94	12°6'16	26024	12	7°5'67	13°2'41	26098	13	19°4'13	14°5'53
25803	7	10°5'73	9°9'73	25877	21	16°4'24	10°8'43	25951	14	3°9'38	12°4'99	26025	21	7°7'15	13°3'06	26099	19	20°0'75	14°4'80
25804	8	11°1'30	9°5'23	25878	15	16°6'23	10°6'35	25952	5	3°9'73	12°4'75	26026	13	8°2'52	13°4'31	26100	9	21°3'70	14°4'24
25805	8	12°2'31	9°0'28	25879	18	17°4'85	10°1'03	25953	9	4°1'38	12°3'97	26027	15	9°4'34	13°0'33	26101	15	21°6'43	14°8'46
25806	6	12°9'55	9°5'33	25880	8	17°6'62	10°3'70	25954	18	4°1'56	12°0'26	26028	18	9°7'34	13°7'86	26102	13	21°7'42	14°4'89
25807	27	13°7'73	9°7'18	25881	8	18°8'16	10°8'40	25955	13	4°9'36	12°7'36	26029	15	9°7'35	13°8'31	26103	11	22°0'86	14°7'14
25808	7	14°0'73	9°0'77	25882	31	19°5'52	10°8'64	25956	9	5°1'58	12°7'14	26030	14	10°1'42	13°2'18	26104	15	22°2'52	14°7'92
25809	13	15°4'47	9°2'49	25883	13	19°8'04	10°8'57	25957	15	5°4'10	12°1'65	26031	6	10°3'93	13°9'85	26105	22	23°1'29	14°6'31
25810	9	16°9'20	9°8'65	25884	6	20°2'65	10°6'28	25958	8	5°6'39	12°8'71	26032	26	11°4'17					

26121	11	5°974	15°896	26195	9	12°288	16°954	26269	7	0°667	18°743	26343	12	16°547	19°982	26417	5	19°237	20°617
26122	6	6°595	15°378	26196	13	12°697	16°733	26270	16	0°691	18°304	26344	6	16°863	19°064	26418	17	20°978	20°912
26123	9	7°379	15°403	26197	11	13°186	16°696	26271	14	2°139	18°721	26345	26	16°968	19°217	26419	13	20°983	20°568
26124	13	7°453	15°978	26198	16	13°454	16°205	26272	7	2°789	18°432	26346	11	17°099	19°143	26420	7	21°572	20°197
26125	7	7°994	15°470	26199	12	13°913	16°649	26273	17	3°324	18°253	26347	18	17°362	19°998	26421	9	21°653	20°196
26126	16	8°364	15°246	26200	14	14°193	16°466	26274	11	3°524	18°892	26348	14	17°594	19°607	26422	23	21°897	20°525
26127	11	8°863	15°077	26201	9	14°864	16°599	26275	14	4°296	18°246	26349	17	17°666	19°450	26423	9	22°426	20°373
26128	7	9°280	15°852	26202	15	15°037	16°387	26276	8	5°838	18°140	26350	14	17°894	19°789	26424	27	23°552	20°265
26129	24	9°652	15°837	26203	14	15°501	16°815	26277	12	7°056	18°408	26351	12	18°618	19°668	26425	5	23°824	20°850
26130	7	9°690	15°514	26204	12	15°572	16°580	26278	20	7°255	18°149	26352	8	18°646	19°017	26426	7	24°764	20°404
26131	6	9°936	15°201	26205	6	17°413	16°692	26279	8	7°854	18°140	26353*	26	18°812	19°915	26427	11	25°086	20°707
26132	8	10°375	15°090	26206	8	17°863	16°598	26280	7	7°894	18°846	26354	7	18°903	19°074	26428	18	25°993	20°074
26133	18	10°483	15°942	26207	18	19°320	16°488	26281	13	8°439	18°077	26355	19	19°585	19°223	26429	21	3°164	21°562
26134	9	11°146	15°270	26208	13	19°332	16°822	26282	6	8°638	18°884	26356	19	23°414	19°860	26430	11	4°306	21°044
26135	9	11°494	15°395	26209	18	19°734	16°193	26283	8	8°845	18°053	26357*	62	23°723	19°867	26431*	32	4°589	21°132
26136	14	11°638	15°630	26210	14	19°750	16°971	26284	10	9°639	18°070	26358	7	24°007	19°208	26432	12	5°387	21°216
26137	10	11°805	15°747	26211	15	20°533	16°603	26285	23	9°815	18°776	26359*	57	24°333	19°154	26433	8	5°414	21°240
26138	7	11°836	15°826	26212	13	20°942	16°312	26286	8	10°181	18°042	26360	7	24°448	19°571	26434	15	5°787	21°412
26139	7	12°282	15°923	26213	25	21°664	16°167	26287	7	10°355	18°908	26361	7	24°704	19°852	26435	25	5°849	21°576
26140	11	12°596	15°022	26214	17	22°006	16°475	26288	11	10°896	18°073	26362	7	25°120	19°363	26436	7	5°981	21°520
26141	14	12°795	15°325	26215	9	22°052	16°314	26289	7	11°669	18°989	26363	14	25°176	19°481	26437	7	6°353	21°468
26142	12	12°861	15°753	26216	6	22°888	16°065	26290	8	12°590	18°142	26364	6	25°926	19°107	26438	13	6°444	21°858
26143	6	13°327	15°852	26217	14	23°143	16°343	26291	9	13°216	18°377	26365	22	0°344	20°242	26439	11	6°453	21°431
26144	5	13°332	15°794	26218	23	24°211	16°449	26292	5	13°592	18°708	26366	19	0°737	20°811	26440	12	6°487	21°054
26145	17	14°342	15°726	26219	12	25°776	16°244	26293	7	14°772	18°392	26367	6	2°278	20°189	26441*	35	7°541	21°634
26146	8	15°474	15°988	26220	13	25°985	16°380	26294*	34	14°911	18°604	26368	7	2°405	20°644	26442	16	7°634	21°320
26147	11	16°111	15°597	26221	26	2°532	17°794	26295	8	15°144	18°362	26369*	27	2°459	20°687	26443	17	7°827	21°187
26148	9	16°243	15°743	26222	6	3°356	17°263	26296	14	15°263	18°393	26370	14	2°673	20°743	26444	14	7°916	21°472
26149	7	16°460	15°697	26223	11	3°998	17°404	26297	18	16°182	18°965	26371	11	3°872	20°737	26445	12	8°193	21°142
26150	8	16°614	15°384	26224	6	4°086	17°558	26298	7	16°254	18°128	26372	8	3°875	20°152	26446	26	8°325	21°393
26151	14	16°852	15°380	26225	8	4°311	17°578	26299	13	16°655	18°128	26373	13	4°439	20°086	26447*	31	9°173	21°013
26152	9	16°917	15°734	26226	6	4°860	17°978	26300	9	16°907	18°164	26374	14	5°552	20°665	26448	11	9°596	21°967
26153	6	18°359	15°937	26227	10	5°205	17°422	26301	5	17°552	18°187	26375	11	5°740	20°486	26449	7	10°254	21°087
26154	11	18°735	15°910	26228	13	6°092	17°197	26302	7	18°814	18°626	26376	5	5°913	20°663	26450*	40	10°327	21°708
26155	5	19°487	15°781	26229	37	6°666	17°554	26303	10	19°528	18°526	26377	11	6°124	20°097	26451	7	10°565	21°057
26156	5	19°720	15°276	26230	8	7°556	17°193	26304	21	19°708	18°227	26378	7	6°218	20°676	26452	7	11°344	21°579
26157	7	19°774	15°261	26231	7	7°721	17°198	26305	6	19°869	18°743	26379	23	6°253	20°888	26453	21	12°579	21°683
26158	13	20°805	15°504	26232	14	7°746	17°301	26306	12	20°047	18°263	26380	13	6°309	20°863	26454	11	12°704	21°704
26159	20	20°976	15°005	26233	13	7°973	17°857	26307	9	20°433	18°092	26381	12	6°661	20°068	26455	7	12°776	21°700
26160	25	21°405	15°562	26234	21	7°996	17°425	26308	11	20°627	18°718	26382	11	6°822	20°910	26456	11	12°897	21°938
26161	13	21°445	15°117	26235	6	9°702	17°422	26309	9	21°751	18°379	26383	6	7°111	20°247	26457	6	14°935	21°776
26162	10	21°505	15°395	26236	11	10°165	17°210	26310	7	22°390	18°899	26384	12	7°214	20°366	26458	9	15°283	21°926
26163	24	21°707	15°188	26237	13	10°299	17°209	26311	7	22°476	18°383	26385	22	7°468	20°660	26459	9	15°831	21°230
26164	11	22°269	15°971	26238	7	11°074	17°824	26312	8	22°787	18°898	26386	9	7°480	20°344	26460	14	16°615	21°934
26165	5	22°536	15°542	26239	16	11°864	17°216	26313	19	23°729	18°957	26387	18	7°745	20°561	26461	11	16°887	21°607
26166	22	23°549	15°857	26240	17	11°882	17°493	26314	11	24°426	18°970	26388	25	8°178	20°747	26462	15	16°946	21°292
26167	20	23°734	15°732	26241	18	11°924	17°196	26315	27	24°809	18°825	26389	10	8°937	20°061	26463	14	17°188	21°922
26168	9	24°387	15°763	26242	29	12°037	17°064	26316	6	25°191	18°078	26390	14	9°128	20°955	26464	16	17°764	21°748
26169	5	24°690	15°390	26243	7	12°480	17°236	26317	10	25°992	18°537	26391	11	10°749	20°763	26465	16	17°811	21°063
26170	7	25°303	15°486	26244	13	12°577	17°508	26318	22	4°673	19°763	26392	20	11°054	20°324	26466	20	18°903	21°006
26171	9	25°362	15°956	26245	6	12°665	17°206	26319	12	4°683	19°157	26393	13	11°431	20°692	26467	29	19°812	21°324
26172	7	25°390	15°975	26246	23	13°590	17°822	26320	18	4°799	19°881	26394	9	11°793	20°751	26468	9	20°296	21°545
26173	12	0°977	16°769	26247	24	15°111	17°132	26321*	79	5°284	19°217	26395	6	11°992	20°357	26469	7	21°023	21°055
26174	9	1°216	16°293	26248	14	15°215	17°262	26322	14	5°825	19°373	26396	14	12°084	20°892	26470	8	21°568	21°516
26175	6	1°627	16°387	26249	19	15°738	17°471	26323	6	6°260	19°725	26397	14	12°607	20°087	26471	5	21°701	21°272
26176	19	2°238	16°097	26250*	53	16°236	17°516	26324	25	6°754	19°069	26398	13	12°653	20°698	26472	13	21°836	21°084
26177	12	3°637	16°517	26251*	42	16°305	17°547	26325	13	6°802	19°130	26399	14	12°748	20°618	26473*	47	22°569	21°557
26178	13	3°741	16°728	26252	22	16°327	17°868	26326	12	7°833	19°038	26400	17	13°430	20°935	26474	14	23°465	21°345
26179	12	5°042	16°754	26253	15	17°441	17°401	26327	13	8°084	19°633	26401	12	13°666	20°387	26475	13	23°545	21°587
26180	25	5°110	16°273	26254	14	18°275	17°163	26328	14	8°782	19°168	26402	16	13°903	20°973	26476	22	23°956	21°011
26181	5	6°226	16°642	26255	24	20°816	17°612	26329	9	9°404	19°967	26403	7	14°681	20°773	26477	11	24°224	21°578
26182	17	6°278	16°187	26256	14	21°850	17°055	26330	7	9°712	19°986	26404	8	14°926	20°254	26478	12	24°504	21°933
26183	12	6°357	16°968	26257	17	2													

26491	7	5'883	22'102	26565	11	16'774	23'987	26639	7	12'644	25'283	26728	24	15'691	0'688	26802	8	15'235	2'983
26492	16	6'171	22'047	26566	6	17'166	23'793	26640	7	13'163	25'013	26729	10	15'903	0'895	26803	12	15'631	2'741
26493	15	7'274	22'818	26567	7	17'525	23'804	26641	10	13'571	25'227	26730	14	17'352	0'657	26804	8	17'074	2'361
26494	6	8'252	22'119	26568	13	17'716	23'523	26642	18	13'646	25'076	26731	29	18'985	0'136	26805	22	17'777	2'372
26495	21	8'348	22'051	26569	27	18'437	23'698	26643	12	13'975	25'931	26732	28	20'327	0'308	26806	10	17'923	2'807
26496	8	8'775	22'141	26570	24	18'967	23'842	26644	14	14'132	25'946	26733	16	22'215	0'247	26807	12	18'138	2'462
26497	6	9'638	22'818	26571	13	19'105	23'363	26645	7	14'311	25'380	26734	7	22'400	0'609	26808	13	18'243	2'625
26498	7	10'410	22'549	26572	7	20'734	23'794	26646	9	15'141	25'115	26735	7	22'447	0'099	26809	13	20'786	2'147
26499	11	11'194	22'314	26573	11	20'863	23'384	26647	42	15'887	25'656	26736	8	22'558	0'310	26810	24	20'944	2'752
26500*	27	11'439	22'033	26574	6	20'986	23'241	26648	14	16'074	25'536	26737	17	22'780	0'204	26811	23	20'982	2'668
26501	9	11'675	22'016	26575	13	22'301	23'545	26649	81	16'507	25'687	26738	10	1'396	1'105	26812	11	21'014	2'011
26502	14	12'044	22'567	26576	12	22'667	23'278	26650	13	16'696	25'314	26739	14	3'661	1'112	26813	9	21'279	2'073
26503	14	12'232	22'404	26577	6	23'342	23'289	26651	9	16'937	25'193	26740	9	4'762	1'436	26814	22	22'083	2'508
26504	24	12'458	22'496	26578	7	23'368	23'777	26652	9	17'167	25'065	26741	9	5'111	1'333	26815	24	22'194	2'024
26505	17	12'539	22'231	26579	13	0'565	24'610	26653	10	17'226	25'593	26742	19	6'308	1'385	26816	12	23'188	2'512
26506	9	13'118	22'450	26580	16	0'732	24'380	26654	15	18'392	25'847	26743	13	6'746	1'863	26817	7	24'094	2'036
26507	9	13'126	22'747	26581	19	1'762	24'261	26655	15	18'652	25'198	26744	14	6'914	1'363	26818	9	24'897	2'746
26508	8	13'497	22'245	26582	15	4'155	24'743	26656	5	19'939	25'368	26745	6	8'040	1'969	26819	8	25'130	2'185
26509	16	13'769	22'025	26583	7	4'268	24'929	26657	19	21'043	25'028	26746	34	8'320	1'077	26820	19	25'701	2'427
26510	13	14'141	22'508	26584	8	4'377	24'297	26658	6	21'089	25'680	26747	13	8'340	1'467	26821	7	0'100	3'807
26511	11	14'367	22'448	26585	9	4'408	24'315	26659	11	23'423	25'029	26748	7	8'616	1'924	26822	26	1'620	3'672
26512	13	14'394	22'167	26586	15	4'414	24'407	26660	8	23'711	25'547	26749	8	9'594	1'622	26823	9	2'733	3'913
26513	10	14'487	22'331	26587	14	4'773	24'293	26661	8	23'733	25'226	26750	9	9'715	1'728	26824	10	3'348	3'024
26514	10	14'667	22'622	26588	13	5'016	24'357	26662	11	25'690	25'918	26751	15	9'875	1'467	26825	7	3'602	3'985
26515	9	14'709	22'561	26589	12	5'792	24'931					26752	31	12'551	1'288	26826	8	4'785	3'687
26516	9	14'858	22'712	26590	10	6'503	24'538					26753	10	12'613	1'761	26827	17	5'429	3'294
26517	19	14'939	22'704	26591	8	7'689	24'080					26754	13	13'061	1'382	26828	8	5'554	3'574
26518	8	15'160	22'495	26592	19	7'864	24'292					26755	20	13'404	1'048	26829	21	8'294	3'188
26519	6	15'395	22'266	26593	9	8'418	24'328					26756	25	13'883	1'234	26830	6	9'176	3'529
26520	20	16'563	22'120	26594*	40	8'824	24'703					26757	11	14'327	1'896	26831	12	9'305	3'524
26521	8	17'044	22'195	26595	12	9'147	24'625					26758	8	14'356	1'772	26832	9	9'526	3'029
26522	12	17'060	22'204	26596	9	9'536	24'491					26759	13	14'824	1'868	26833	11	9'797	3'775
26523	13	17'209	22'241	26597	6	9'983	24'329					26760	10	16'102	1'451	26834	14	9'916	3'670
26524	11	17'863	22'649	26598	9	9'985	24'087					26761*	34	16'140	1'790	26835	12	11'767	3'133
26525	8	18'055	22'536	26599*	34	10'391	24'667					26762	9	16'229	1'571	26836	9	12'515	3'993
26526	15	18'137	22'928	26600	11	11'222	24'086					26763	9	16'611	1'823	26837	10	13'274	3'868
26527	8	19'018	22'172	26601	6	11'533	24'115					26764	8	17'040	1'581	26838	7	13'512	3'254
26528	24	19'296	22'584	26602	9	12'348	24'034					26765	12	17'224	1'407	26839	19	14'359	3'751
26529	16	19'364	22'710	26603	17	12'596	24'542					26766	16	17'993	1'372	26840	14	14'643	3'900
26530	7	19'478	22'208	26604	7	13'038	24'506					26767	27	18'007	1'157	26841	26	15'447	3'718
26531	34	19'574	22'914	26605	15	13'508	24'217					26768	23	18'084	1'115	26842	7	15'945	3'396
26532	13	19'742	22'729	26606	6	13'825	24'357					26769	34	18'215	1'918	26843	6	16'055	3'887
26533	9	19'885	22'671	26607	9	14'462	24'335					26770	11	18'563	1'576	26844	12	16'093	3'434
26534	6	19'916	22'262	26608	7	14'916	24'962					26771	8	20'220	1'325	26845	14	16'474	3'688
26535	14	20'547	22'609	26609	17	15'245	24'857					26772	11	20'514	1'353	26846	7	16'887	3'215
26536	11	21'296	22'631	26610	14	16'053	24'784					26773	9	20'806	1'628	26847	24	17'653	3'017
26537	7	23'594	22'462	26611	19	16'134	24'106					26774	11	21'756	1'711	26848	7	17'769	3'913
26538	22	24'740	22'479	26612	8	16'175	24'459					26775	30	22'922	1'627	26849	18	18'309	3'015
26539	12	24'933	22'097	26613	16	18'015	24'006					26776	23	23'877	1'086	26850	13	19'432	3'748
26540	23	0'821	23'799	26614	25	18'519	24'869					26777	11	24'884	1'648	26851	11	19'846	3'939
26541	7	2'724	23'151	26615	11	18'734	24'410					26778	12	25'349	1'860	26852	22	19'893	3'807
26542	10	2'875	23'198	26616	25	18'875	24'208					26779	24	25'534	1'793	26853	8	20'448	3'900
26543	19	3'887	23'214	26617	13	19'065	24'104					26780	17	0'526	2'785	26854	15	20'570	3'863
26544	13	3'895	23'738	26618	7	19'158	24'325					26781	6	1'534	2'337	26855	14	21'255	3'390
26545	10	5'656	23'673	26619	19	21'004	24'469					26782	24	2'020	2'870	26856	8	21'568	3'816
26546	10	6'032	23'302	26620	20	21'009	24'202					26783	16	3'551	2'189	26857	7	22'044	3'504
26547	8	7'285	23'533	26621	8	21'556	24'325					26784	11	4'181	2'591	26858	14	23'725	3'576
26548	18	7'600	23'204	26622	7	22'878	24'632					26785*	43	4'313	2'014	26859	8	25'133	3'984
26549	7	7'996	23'618	26623	14	23'826	24'677					26786	11	5'147	2'330	26860	12	25'684	3'183
26550	27	9'048	23'169	26624	11	23'935	24'314					26787	12	5'404	2'613	26861	20	0'569	4'458
26551	5	10'376	23'142	26625*	49	24'406	24'920					26788	13	5'516	2'708	26862	14	1'086	4'095
26552	9	10'860	23'089	26626	25	25'772	24'398					26789	17	7'077	2'403	26863	13	1'204	4'178
26553	5	11'015	23'243	26627	18	25'796	24'358					26790	14	7'236	2'036	26864	21	1'946	4'744
26554	14	11'101	23'589	26628	36	1'292	25'061					26791	9	9'975	2'972	26865	13	2'897	4'708
26555	8	12'502	23'003	26629	34	2'472	25'212					26792	12	10'397	2'493	26866	30	2'904	4'441
26556	14	13'243	23'376	26630	13	2'953	25'651					26793	9	10'472	2'398	26867	13	3'375	4'959
26557	13	13'267	23'228	26631	33	6'437	25'818					26794	8	11'203	2'440	26868	18	3'753	4'821
26558	8	13'525	23'841	26632	9	6'486	25'608					26795	22	12'414	2'233	26869	16		

26876	9	6°28	4°134	26950	21	0°426	6°763	27024	7	17°713	7°785	27098	8	3°544	9°180	27172	22	15°998	10°695
26877	17	7°860	4°799	26951	10	0°904	6°714	27025	16	18°430	7°518	27099	15	3°762	9°945	27173*	33	16°656	10°962
26878	9	8°552	4°205	26952*	53	1°681	6°976	27026	14	18°476	7°229	27100	19	4°003	9°422	27174	21	17°234	10°171
26879	10	8°601	4°917	26953	14	2°350	6°963	27027	7	18°767	7°991	27101	8	4°174	9°489	27175	22	17°562	10°022
26880	7	8°614	4°934	26954	9	2°533	6°322	27028	9	18°786	7°476	27102*	42	5°173	9°222	27176	8	18°433	10°445
26881	24	9°006	4°002	26955	12	3°504	6°014	27029	7	19°166	7°138	27103	11	5°337	9°976	27177	9	18°724	10°846
26882	8	10°814	4°083	26956	26	3°708	6°037	27030	6	19°457	7°768	27104	7	5°494	9°742	27178	21	21°020	10°902
26883	7	10°907	4°687	26957	13	4°265	6°421	27031	23	20°375	7°500	27105	16	5°682	9°196	27179	7	21°801	10°804
26884	13	10°985	4°724	26958	16	4°312	6°146	27032	8	20°757	7°584	27106	7	5°877	9°054	27180	13	22°764	10°288
26885	7	11°570	4°555	26959	12	4°574	6°071	27033	12	21°260	7°308	27107	12	7°254	9°667	27181	22	23°405	10°901
26886	17	11°596	4°408	26960	9	4°941	6°576	27034	12	21°650	7°579	27108	16	7°363	9°326	27182	6	23°697	10°384
26887	36	13°698	4°580	26961	25	7°007	6°038	27035	7	21°659	7°647	27109	7	8°382	9°542	27183	22	23°834	10°153
26888	8	14°576	4°024	26962	14	7°874	6°907	27036	22	21°954	7°475	27110	14	8°389	9°446	27184	7	24°362	10°055
26889	13	14°927	4°940	26963	12	8°354	6°726	27037	21	22°325	7°246	27111	17	8°920	9°364	27185	9	3°460	11°892
26890	15	15°436	4°164	26964	13	9°050	6°441	27038	8	23°084	7°185	27112	7	9°119	9°774	27186	21	3°461	11°251
26891	17	17°213	4°334	26965	14	9°294	6°087	27039	20	23°705	7°513	27113	9	11°134	9°800	27187	14	3°877	11°107
26892	13	18°216	4°766	26966	17	9°356	6°697	27040	19	24°674	7°350	27114	16	11°734	9°591	27188	23	4°073	11°822
26893	21	18°753	4°214	26967	13	9°568	6°939	27041	25	24°914	7°095	27115	8	11°775	9°407	27189	14	4°784	11°571
26894	13	18°861	4°273	26968	8	9°973	6°888	27042	10	24°976	7°976	27116	16	11°836	9°946	27190	31	4°899	11°063
26895	14	19°307	4°436	26969	16	10°164	6°405	27043	12	25°265	7°533	27117	13	13°471	9°525	27191	7	5°559	11°581
26896	13	21°619	4°370	26970	7	10°634	6°389	27044	10	25°563	7°694	27118	16	13°645	9°987	27192	7	6°090	11°857
26897	24	22°296	4°973	26971	14	11°021	6°738	27045	7	25°724	7°816	27119	7	15°853	9°618	27193	13	7°846	11°476
26898	9	23°135	4°610	26972	21	11°770	6°423	27046	19	0°311	8°901	27120	8	16°225	9°676	27194	13	7°874	11°659
26899	10	23°144	4°069	26973	38	11°804	6°690	27047	31	1°997	8°508	27121*	39	16°666	9°893	27195	14	8°325	11°736
26900*	49	25°021	4°476	26974	11	12°827	6°829	27048	7	3°152	8°544	27122	12	16°924	9°796	27196	9	8°748	11°900
26901	17	25°393	4°667	26975	17	13°480	6°870	27049	9	3°309	8°951	27123	18	18°053	9°261	27197	16	9°437	11°875
26902	13	25°498	4°866	26976	24	13°784	6°879	27050	7	3°469	8°972	27124	13	18°974	9°268	27198*	34	11°073	11°648
26903*	40	0°354	5°776	26977	12	14°636	6°079	27051	13	3°700	8°840	27125	31	19°036	9°005	27199	10	11°138	11°938
26904	7	2°246	5°760	26978	14	15°173	6°204	27052	37	3°829	8°889	27126	12	19°087	9°262	27200	14	11°434	11°246
26905	12	2°375	5°016	26979	9	15°936	6°612	27053	29	4°113	8°690	27127	9	19°776	9°195	27201	11	12°231	11°894
26906	6	2°587	5°467	26980	20	16°925	6°717	27054	33	4°392	8°376	27128	12	19°855	9°246	27202	25	12°362	11°187
26907*	86	2°875	5°413	26981	7	17°924	6°163	27055*	39	4°398	8°327	27129	11	20°221	9°368	27203	23	14°206	11°384
26908	7	3°608	5°051	26982	16	19°007	6°403	27056	11	5°027	8°576	27130	17	21°428	9°286	27204	9	15°015	11°905
26909	19	3°821	5°347	26983	31	19°371	6°784	27057	7	5°401	8°074	27131	9	22°076	9°697	27205	7	16°122	11°053
26910	15	4°785	5°856	26984	24	19°488	6°446	27058	11	6°118	8°463	27132	16	22°195	9°791	27206	10	17°483	11°163
26911	9	6°333	5°980	26985	21	19°767	6°383	27059	6	7°106	8°705	27133	10	22°483	9°914	27207	6	18°146	11°253
26912	24	6°603	5°709	26986	11	20°716	6°382	27060	21	7°450	8°731	27134	11	22°488	9°693	27208	7	18°447	11°434
26913*	52	7°224	5°639	26987	11	20°808	6°556	27061	7	7°639	8°587	27135	12	22°553	9°433	27209	9	18°845	11°003
26914	14	8°971	5°990	26988	8	21°026	6°783	27062	17	8°393	8°716	27136	17	22°684	9°596	27210	6	20°056	11°873
26915	7	9°050	5°293	26989	10	22°494	6°063	27063	6	8°705	8°626	27137	19	22°856	9°954	27211	21	20°406	11°842
26916	11	9°755	5°489	26990	18	23°742	5°563	27064*	36	9°176	8°069	27138	8	23°193	9°345	27212	8	20°952	11°904
26917	15	10°253	5°736	26991	14	24°225	6°392	27065	25	9°359	8°063	27139	13	23°857	9°002	27213	7	21°027	11°963
26918	11	10°362	5°945	26992	13	25°904	6°421	27066	7	9°847	8°193	27140	22	25°665	9°827	27214	13	21°994	11°176
26919	29	11°474	5°578	26993	14	0°233	7°253	27067	14	10°222	8°403	27141	9	25°971	9°866	27215	12	23°452	11°685
26920	7	12°070	5°561	26994	7	0°247	7°203	27068	12	10°432	8°097	27142	34	0°405	10°883	27216	11	23°453	11°673
26921	17	13°431	5°998	26995	23	0°577	7°226	27069	15	10°623	8°784	27143	14	0°614	10°063	27217	13	24°468	11°440
26922	11	13°993	5°474	26996	7	0°606	7°738	27070	11	10°739	8°897	27144	13	0°736	10°192	27218	8	0°634	12°060
26923	11	14°306	5°257	26997	9	0°628	7°301	27071	12	11°186	8°967	27145	7	0°805	10°822	27219	13	0°762	12°337
26924	9	14°647	5°945	26998	25	1°115	7°738	27072	14	11°943	8°774	27146	16	0°814	10°555	27220	7	3°014	12°669
26925	19	14°756	5°509	26999	34	2°706	7°456	27073	12	12°147	8°676	27147	8	2°624	10°468	27221	21	3°667	12°511
26926	12	15°093	5°994	27000	10	3°281	7°939	27074	13	13°055	8°819	27148	19	2°747	10°497	27222	8	4°042	12°402
26927	11	15°360	5°757	27001	14	3°354	7°687	27075	6	13°101	8°215	27149	9	2°907	10°213	27223	28	4°201	12°267
26928	14	15°619	5°646	27002	10	4°638	7°107	27076	9	13°423	8°682	27150	11	3°092	10°026	27224	8	4°514	12°997
26929	15	15°975	5°925	27003	26	5°711	7°273	27077	8	13°953	8°966	27151	32	4°083	10°172	27225	13	4°834	12°325
26930*	52	16°195	5°004	27004	8	5°754	7°909	27078	13	15°657	8°069	27152	7	4°321	10°187	27226	20	5°523	12°867
26931	15	17°248	5°492	27005*	43	6°409	7°412	27079	9	15°826	8°078	27153	11	4°846	10°513	27227	7	5°955	12°853
26932	9	17°684	5°761	27006	13	8°176	7°694	27080*	40	17°671	8°170	27154	18	5°177	10°044	27228	16	6°103	12°030
26933	7	18°351	5°324	27007	6	9°296	7°603	27081	14	18°480	8°082	27155*	37	5°711	10°010	27229	8	7°444	12°305
26934	8	18°906	5°187	27008	11	9°334	7°624	27082	11	18°786	8°568	27156*	37	5°988	10°378	27230	13	8°438	12°452
26935	30	19°327	5°249	27009	7	9°882	7°980	27083	22	21°655	8°736	27157	10	6°629	10°099	27231	11	9°517	12°504
26936	19	19°963	5°165	27010	10	11°234	7°693	27084	9	22°265	8°274	27158	28	7°075	10°526	27232	14	10°556	12°812
26937	7	20°442	5°778	27011	13	11°288	7°444	27085	12	23°081	8°088	27159	10	7°188	10°093	27233*	25	10°873	12°611
26938	13	21°537	5°526	27012	9	11°692	7°082	27086	10	24°119	8°368	27160	9	7°361	10°412	27234	7	10°982	12°170
26939	17	21°599	5°745	27013	16	11°939	7°437	27087	7	25°226</									

27246	7	22°332	12°695	27320*	27	19°501	14°904	27394	9	8°977	16°301	27468	13	20°616	17°187	27542	10	16°154	19°227
27247	9	22°564	12°393	27321	9	20°744	14°594	27395	8	9°255	16°937	27469	11	21°086	17°281	27543	8	16°188	19°380
27248	14	22°616	12°678	27322	10	22°056	14°955	27396	15	9°673	16°589	27470	20	21°895	17°761	27544	19	17°423	19°149
27249	10	23°814	12°386	27323	22	22°097	14°479	27397	10	10°055	15°564	27471	12	22°404	17°627	27545	10	17°725	19°028
27250	21	24°044	12°576	27324	14	22°167	14°521	27398	6	10°334	16°456	27472	12	23°068	17°921	27546	15	18°142	19°167
27251	8	24°718	12°492	27325	7	22°866	14°922	27399	7	10°442	16°923	27473	13	24°897	17°358	27547	12	18°202	19°154
27252	18	0°562	13°651	27326	10	23°185	14°662	27400	7	11°350	16°595	27474	6	1°515	18°036	27548	11	18°241	19°090
27253	7	0°696	13°776	27327	7	23°956	14°957	27401	14	11°368	16°213	27475	31	3°065	18°877	27549	10	20°673	19°312
27254	9	0°761	13°039	27328	14	24°452	14°343	27402	24	11°564	16°187	27476	11	4°247	18°588	27550	13	20°828	19°835
27255	13	2°295	13°728	27329	24	1°796	15°914	27403	10	12°567	16°193	27477*	49	5°043	18°989	27551	16	22°216	19°794
27256	19	2°764	13°294	27330	22	1°979	15°788	27404	21	13°957	16°912	27478*	46	5°647	18°904	27552	15	22°455	19°786
27257	26	3°735	13°543	27331	9	2°635	15°817	27405	22	14°218	16°697	27479	14	6°535	18°595	27553	18	22°496	19°185
27258	8	3°984	13°584	27332	7	3°550	15°538	27406	13	14°462	16°084	27480	8	7°565	18°719	27554	7	22°780	19°751
27259	19	4°162	13°419	27333	9	4°449	15°527	27407	12	14°665	16°943	27481	7	9°103	18°072	27555	9	23°396	19°710
27260	13	4°195	13°489	27334	13	4°603	15°399	27408	21	15°916	16°946	27482	7	9°126	18°804	27556	7	24°498	19°567
27261	13	4°535	13°231	27335	14	4°741	15°576	27409	8	15°953	16°964	27483	8	9°707	18°268	27557	25	24°943	19°237
27262	14	5°187	13°465	27336	7	5°041	15°836	27410	14	16°299	16°478	27484	7	9°857	18°044	27558	9	25°746	19°238
27263	24	5°236	13°854	27337	12	5°236	15°533	27411	8	16°458	16°871	27485	7	9°876	18°467	27559	20	0°155	20°586
27264*	36	5°672	13°043	27338*	47	5°858	15°969	27412	11	16°964	16°387	27486	13	10°863	18°344	27560	6	0°682	20°435
27265	10	5°898	13°974	27339	11	5°977	15°712	27413	8	17°384	16°564	27487	9	11°025	18°005	27561	28	1°812	20°323
27266	7	7°446	13°035	27340	8	6°046	15°445	27414	14	19°213	16°073	27488	9	11°027	18°662	27562	12	3°349	20°761
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27268	17	7°816	13°281	27342	15	6°877	15°282	27416	24	20°044	16°784	27490	10	12°957	18°479	27564	15	4°306	20°054
27269	8	7°925	13°973	27343	24	7°399	15°037	27417	10	20°189	16°017	27491	11	13°522	18°659	27565	7	4°689	20°408
27270	24	9°106	13°942	27344	8	8°766	15°725	27418	7	20°804	16°638	27492	13	13°953	18°802	27566	8	4°809	20°171
27271	14	10°630	13°673	27345	16	8°863	15°082	27419	8	20°828	16°776	27493	27	14°169	18°594	27567	7	6°323	20°578
27272	15	10°680	13°749	27346	8	9°024	15°727	27420	13	21°441	16°729	27494	14	15°568	18°628	27568	16	7°580	20°781
27273	14	10°805	13°964	27347	13	9°184	15°976	27421	7	22°575	16°023	27495	15	16°729	18°216	27569	8	7°650	20°104
27274*	57	13°099	13°256	27348	12	9°569	15°401	27422	10	22°596	16°293	27496	10	18°195	18°117	27570	13	7°807	20°317
27275	12	13°134	13°284	27349	17	10°307	15°413	27423	12	0°101	17°117	27497	11	20°377	18°598	27571	6	8°863	20°202
27276	7	13°526	13°668	27350	17	10°383	15°511	27424	16	0°417	17°724	27498	16	20°433	18°569	27572*	30	9°407	20°955
27277	13	14°264	13°592	27351	13	10°986	15°178	27425	13	1°117	17°389	27499	12	20°448	18°583	27573	10	9°749	20°476
27278	26	14°311	13°829	27352	11	11°074	15°046	27426	12	1°232	17°279	27500	7	20°549	18°237	27574	15	9°842	20°882
27279	14	15°553	13°381	27353	9	11°103	15°053	27427	12	1°515	17°685	27501	10	21°028	18°850	27575	9	9°903	20°372
27280	8	15°678	13°268	27354	7	11°786	15°046	27428	14	1°891	17°412	27502*	46	21°518	18°218	27576	34	10°119	20°343
27281	13	17°409	13°302	27355	9	12°157	15°093	27429	21	2°185	17°107	27503	8	21°542	18°311	27577	7	10°364	20°427
27282	21	18°036	13°416	27356	27	12°704	15°074	27430	26	2°627	17°524	27504	16	23°860	18°103	27578	13	10°446	20°698
27283	12	19°081	13°350	27357	7	13°382	15°084	27431	6	4°076	17°391	27505	24	24°758	18°895	27579	9	10°559	20°048
27284	15	20°249	13°187	27358	14	13°887	15°179	27432	16	4°273	17°437	27506	14	25°314	18°626	27580	18	10°905	20°669
27285	7	24°280	13°050	27359	7	15°426	15°574	27433	31	4°784	17°783	27507	9	25°447	18°118	27581	13	11°796	20°807
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27288	12	25°316	13°004	27362	11	20°104	15°475	27436	10	5°754	17°681	27510*	63	1°982	19°922	27584	20	13°968	20°855
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27293	14	2°788	14°639	27367	12	23°627	15°836	27441	27	7°354	17°504	27515	14	3°434	19°532	27589	11	17°144	20°993
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27295	24	4°266	14°921	27369	8	23°974	15°542	27443	8	9°459	17°989	27517	14	5°061	19°600	27591	12	17°231	20°015
27296	13	5°336	14°909	27370	7	24°470	15°045	27444	7	9°728	17°214	27518	19	6°755	19°068	27592	7	17°310	20°762
27297	6	5°855	14°886	27371	16	25°129	15°334	27445	8	9°851	17°743	27519*	37	6°829	19°901	27593	24	18°177	20°208
27298	8	6°365	14°855	27372*	37	25°259	15°690	27446	17	9°928	17°950	27520	6	7°204	19°065	27594	6	18°247	20°696
27299	11	6°474	14°258	27373	18	0°255	16°536	27447	13	10°647	17°629	27521	12	7°527	19°528	27595	21	18°415	20°006
27300	12	6°682	14°829	27374	7	0°301	16°375	27448	9	11°294	17°893	27522	22	7°744	19°047	27596	8	18°691	20°385
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27304	12	8°088	14°664	27378	13	4°026	16°294	27452	12	14°148	17°561	27526*	32	8°393	19°592	27600	7	21°446	20°505
27305	15	8°351	14°046	27379	13	4°236	16°430	27453	23	15°127	17°208	27527	9	9°575	19°390	27601	10	21°796	20°523
27306	12	9°422	14°953	27380	9	4°537	16°245	27454	13	15°704	17°986	27528	18	9°618	19°093	27602	8	22°340	20°268
27307	9	9°852	14°044	27381	12	4°853	16°534	27455	24	16°443	17°487	27529	24	10°614	19°042	27603	22	22°412	20°352
27308	11	10°106	14°417	27382	14	5°432	16°946	27456											

27616	8	4°771	21°083	27690	8	25°579	22°709	27764	7	10°204	25°184	27831	10	7°382	27°46	27905	12	24°239	5°415
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27630	8	14°094	21°554	27704	13	13°556	23°519	27778	24	20°787	25°083	27845	12	4°970	3°345	27919	8	15°363	6°618
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27637	24	18°307	21°562	27711	8	18°004	23°756					27852	8	10°911	3°786	27926	9	21°119	6°982
27638	21	18°676	21°759	27712	17	18°995	23°137					27853	8	11°534	3°987	27927	11	21°581	6°346
27639	13	20°899	21°862	27713	21	20°344	23°292					27854	15	11°673	3°288	27928	9	22°980	6°613
27640*	23	21°212	21°040	27714	12	20°926	23°997					27855	12	12°761	3°377	27929	9	24°936	6°825
27641	9	21°359	21°121	27715	21	21°086	23°226					27856	10	13°355	3°022	27930	8	25°623	6°024
27642	14	22°411	21°918	27716	12	21°284	23°625					27857	8	14°477	3°656	27931	9	1°683	7°155
27643	7	22°495	21°699	27717	22	21°451	23°350					27858	9	15°751	3°485	27932	10	4°280	7°979
27644	14	23°436	21°252	27718	12	21°961	23°534					27859	10	16°999	3°578	27933	14	4°965	7°071
27645	7	23°584	21°233	27719*	56	22°172	23°882					27860	13	19°051	3°405	27934	11	6°269	7°350
27646	10	24°469	21°512	27720*	54	22°533	23°915					27861	12	19°400	3°166	27935	10	6°666	7°655
27647	13	25°725	21°034	27721	10	23°505	23°305					27862	8	19°529	3°353	27936	10	7°363	7°323
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27654	13	6°064	22°954	27728	8	2°203	24°372					27869	10	0°200	4°839	27943	18	24°543	7°641
27655	12	6°484	22°963	27729*	54	2°675	24°976					27870	15	0°201	4°623	27944*	26	25°294	7°915
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27657	6	7°947	22°596	27731	20	4°064	24°410					27872	9	3°318	4°246	27946	9	5°582	8°665
27658	23	8°234	22°106	27732	11	4°350	24°096					27873	10	6°525	4°495	27947	11	5°942	8°856
27659	6	8°545	22°328	27733*	28	5°102	24°493					27874	10	6°851	4°323	27948	8	8°963	8°930
27660	6	8°771	22°547	27734	10	6°534	24°499					27875*	21	8°294	4°951	27949	12	9°336	8°104
27661	5	9°080	22°543	27735	11	6°933	24°376					27876*	55	8°297	4°305	27950	8	10°358	8°458
27662	15	9°514	22°468	27736	26	7°226	24°459					27877*	20	9°643	4°870	27951	13	11°480	8°574
27663	7	10°161	22°808	27737	9	10°420	24°707					27878	12	10°300	4°171	27952	12	12°239	8°146
27664	11	12°807	22°842	27738*	36	12°616	24°782					27879	11	10°514	4°181	27953	10	12°910	8°331
27665	7	13°039	22°429	27739	7	13°898	24°598					27880	9	11°109	4°156	27954	11	13°960	8°080
27666	15	13°296	22°232	27740	7	13°899	24°799					27881	9	11°776	4°495	27955	11	14°600	8°698
27667	15	13°333	22°897	27741	9	15°834	24°822					27882	10	12°072	4°840	27956*	18	18°516	8°605
27668	16	14°662	22°234	27742	8	16°489	24°764					27883	10	13°205	4°509	27957	10	19°388	8°147
27669	18	15°597	22°420	27743	7	16°603	24°012					27884	13	14°312	4°515	27958*	20	20°168	8°750
27670	24	15°900	22°833	27744	7	17°283	24°164					27885	11	16°020	4°671	27959	10	21°591	8°019
27671	23	18°657	22°089	27745	23	20°301	24°232					27886	7	17°186	4°100	27960	9	22°076	8°770
27672	13	18°667	22°955	27746	22	20°927	24°237					27887	12	21°095	4°827	27961	11	22°435	8°555
27673	14	18°719	22°837	27747	6	20°966	24°325					27888	14	1°329	5°025	27962	10	22°627	8°335
27674	6	19°451	22°034	27748	7	21°137	24°934					27889	8	4°467	5°799	27963	8	23°372	8°180
27675*	31	19°563	22°796	27749	9	21°268	24°229					27890	10	5°741	5°875	27964	11	25°295	8°126
27676	14	21°298	22°375	27750	20	21°485	24°770					27891	11	5°768	5°012	27965	9	0°700	9°277
27677	11	21°485	22°863	27751	9	22°137	24°679					27892	8	7°100	5°075	27966	10	0°879	9°631
27678	13	21°664	22°130	27752	27	23°568	24°934					27893	10	8°745	5°403	27967	12	1°866	9°815
27679	10	21°769	22°387	27753	8	23°624	24°615					27894	12	10°347	5°152	27968	11	3°708	9°448
27680*	29	21°923	22°078	27754	15	23°793	24°422					27895	12	14°819	5°445	27969	6	6°790	9°300
27681*	36	22°728	22°832	27755	7	24°165	24°274					27896	9	15°501	5°836	27970	7	9°247	9°198
27682	15	22°887	22°456	27756	14	24°338	24°550					27897	10	15°579	5°148	27971	11	9°498	9°680
27683	24	23°036	22°914	27757	7	24°397	24°524					27898	12	16°235	5°866	27972	12	10°570	9°715
27684	7	24°125																	

27979*	29	22°961	9°253	28053	8	5°874	14°348	28127*	20	15°595	18°434	28201	10	19°383	23°545	28335	13	7°926	1°366
27980	10	23°568	9°418	28054	10	6°031	14°961	28128	10	15°900	18°459	28202	14	25°617	23°310	28336	15	8°935	1°670
27981	11	23°812	9°552	28055	10	8°535	14°109	28129*	21	16°044	18°537	28203	19	1°916	24°717	28337	12	8°954	1°518
27982*	12	25°025	9°970	28056	9	9°901	14°228	28130	10	20°878	18°800	28204*	28	7°900	24°792	28338	11	10°320	1°913
27983	12	1°451	10°576	28057	10	10°575	14°904	28131	9	22°481	18°133	28205	10	17°846	24°260	28339	9	11°802	1°195
27984*	20	5°007	10°755	28058*	15	11°608	14°750	28132	12	23°220	18°194	28206	9	21°327	24°553	28340*	24	12°181	1°585
27985	8	5°713	10°193	28059	9	11°626	14°836	28133	12	23°225	18°146	28207	11	0°925	25°895	28341	10	13°598	1°639
27986*	14	6°322	10°894	28060	11	16°008	14°261	28134	10	24°829	18°572	28208	12	2°105	25°107	28342	11	14°758	1°740
27987	9	6°410	10°951	28061	10	17°620	14°771	28135*	19	24°834	18°616	28209	10	5°498	25°915	28343	13	15°057	1°009
27988*	19	7°805	10°640	28062	8	18°585	14°606	28136	14	6°192	19°500	28210	8	8°381	25°978	28344	11	15°763	1°774
27989	8	7°879	10°119	28063	10	18°936	14°400	28137	10	10°508	19°085	28211	11	11°885	25°460	28345	13	15°826	1°443
27990*	11	8°703	10°161	28064	9	19°575	14°115	28138	8	12°480	19°761	28212	10	14°354	25°552	28346	11	16°332	1°642
27991	10	9°009	10°185	28065	10	21°587	14°550	28139*	20	14°240	19°160	28213	18	14°785	25°680	28347*	19	16°381	1°734
27992*	14	9°592	10°254	28066	10	24°115	14°145	28140	8	14°860	19°346	28214	30	15°541	25°529	28348*	9	19°400	1°311
27993	15	9°600	10°566	28067	11	24°388	14°994	28141	10	16°589	19°140	28215	11	16°411	25°640	28349	10	19°415	1°664
27994	18	10°100	10°815	28068	9	1°282	15°505	28142	8	17°538	19°363	28216	12	17°415	25°720	28350	15	19°854	1°727
27995	10	10°237	10°956	28069	10	3°283	15°005	28143	8	18°881	19°146	28217	18	22°640	25°970	28351	19	20°970	1°991
27996*	25	10°326	10°689	28070*	21	3°425	15°364	28144	22	22°686	19°192					28352	21	22°061	1°886
27997	9	10°628	10°524	28071*	12	5°267	15°260	28145	11	25°649	19°003					28353	22	22°667	1°964
27998	9	10°875	10°360	28072	10	5°946	15°415	28146	11	0°653	20°125					28354	23	25°776	1°870
27999	8	13°805	10°805	28073*	24	12°350	15°015	28147	7	2°930	20°046					28355	15	2°195	2°468
28000	7	14°095	10°931	28074	10	12°993	15°196	28148	11	5°065	20°815					28356	25	4°366	2°631
28001	8	15°627	10°255	28075	12	14°325	15°368	28149	9	6°418	20°682					28357	28	5°906	2°075
28002*	20	18°313	10°904	28076*	13	15°214	15°660	28150	10	7°916	20°680					28358	13	6°264	2°878
28003	11	18°405	10°061	28077*	14	15°855	15°712	28151	8	10°697	20°255					28359	12	6°714	2°377
28004	18	22°445	10°658	28078	10	16°997	15°155	28152*	11	11°211	20°132					28360	24	6°760	2°271
28005	8	4°171	11°877	28079	8	19°090	15°426	28153*	13	12°717	20°130					28361	18	7°301	2°754
28006	9	6°182	11°128	28080	10	20°609	15°930	28154	10	13°300	20°901					28362	13	8°120	2°016
28007	11	7°834	11°470	28081	9	21°250	15°095	28155	11	16°646	20°395					28363	16	8°381	2°110
28008	10	9°407	11°249	28082	8	21°846	15°247	28156	8	17°916	20°071					28364	11	8°810	2°252
28009*	15	9°594	11°239	28083	19	22°885	15°975	28157	9	19°541	20°099					28365	10	10°490	2°588
28010*	48	13°758	11°370	28084	9	5°841	16°400	28158	10	19°919	20°265					28366	24	10°670	2°387
28011	10	14°165	11°240	28085*	20	6°723	16°430	28159	10	20°884	20°195					28367	23	13°271	2°176
28012*	18	15°756	11°069	28086	12	7°561	16°276	28160	11	21°840	20°270					28368	9	14°177	2°392
28013	10	16°647	11°936	28087	8	9°515	16°817	28161	12	24°965	20°258					28369	10	14°893	2°759
28014	8	19°639	11°201	28088	9	12°143	16°230	28162	14	25°466	20°363					28370	14	16°607	2°558
28015	10	22°280	11°300	28089	10	12°789	16°959	28163*	21	0°195	21°875					28371	22	17°060	2°234
28016	10	23°756	11°009	28090	9	13°522	16°709	28164	9	3°401	21°870					28372	10	17°211	2°849
28017	13	25°355	11°431	28091	10	16°117	16°182	28165	10	6°065	21°140					28373	10	17°697	2°982
28018	11	2°130	12°250	28092	7	17°108	16°380	28166	12	6°835	21°108					28374	11	17°901	2°393
28019*	11	6°140	12°096	28093	8	17°667	16°256	28167	8	8°201	21°847					28375	9	18°433	2°775
28020	8	7°611	12°840	28094	10	18°044	16°530	28168*	20	8°557	21°240					28376	14	19°527	2°203
28021	11	8°050	12°971	28095	12	0°074	17°526	28169	9	8°763	21°754					28377	11	19°814	2°291
28022	10	10°358	12°833	28096	10	2°063	17°825	28170*	20	8°915	21°435					28378	11	20°411	2°789
28023	20	11°090	12°221	28097	22	4°961	17°378	28171	10	9°855	21°250					28379	20	24°883	2°130
28024	9	11°212	12°686	28098	11	6°695	17°827	28172	9	10°714	21°887					28380	30	0°083	3°909
28025	10	12°538	12°375	28099	10	9°287	17°190	28173	10	10°868	21°701					28381	11	0°347	3°607
28026	8	13°073	12°300	28100	11	9°444	17°885	28174	10	15°218	21°725					28382*	45	0°987	3°230
28027	8	13°173	12°865	28101	8	9°562	17°015	28175	14	15°739	21°405					28383	14	1°211	3°080
28028	18	14°219	12°123	28102	11	11°460	17°441	28176	11	16°103	21°175					28384	15	4°521	3°149
28029	14	15°534	12°585	28103	10	11°885	17°636	28177	10	18°091	21°924					28385	18	5°300	3°416
28030	9	16°255	12°970	28104	10	12°656	17°774	28178	11	19°393	21°180					28386	23	5°468	3°087
28031	10	16°542	12°240	28105	10	13°289	17°046	28179	8	22°191	21°800					28387	11	6°996	3°680
28032	10	16°630	12°030	28106	11	14°570	17°280	28180*	29	1°022	22°619					28388	19	8°417	3°540
28033	11	17°427	12°517	28107	8	14°723	17°845	28181	18	1°337	22°694					28389*	23	9°469	3°879
28034	20	17°585	12°582	28108	10	16°065	17°850	28182	19	2°769	22°113					28390	18	10°854	3°162
28035	8	17°923	12°055	28109	9	17°918	17°077	28183	8	8°597	22°223					28391	12	10°901	3°146
28036	10	18°033	12°182	28110	9	18°725	17°035	28184	9	8°720	22°252					28392	12	12°220	3°453
28037	8	19°132	12°800	28111	8	19°288	17°178	28185	8	11°548	22°070					28393	21	12°813	3°572
28038	9	19°920	12°436	28112	12	24°915	17°948	28186	10	12°405	22°656					28394	10	14°711	3°525
28039	7	21°112	12°814	28113	9	0°715	18°950	28187	8	14°432	22°275					28395	11	15°204	3°120
28040	12	24°086	12°480	28114	14	2°987	18°605	28188	9	20°190	22°739					28396	13	15°789	3°782
28041	11	4°385	13°008	28115	14	3°180	18°945	28189*	15	22°380	22°356					28397	12	18°006	3°091
28042	10	8°316	13°025	28116	10	3°539	18°325	28190	9	22°705	22°338					28398	11	18°214	3°609
28043	9	9°999	13°930	28117*	34	4°458	18°758	28191*	27	25°019	22°935					28399	15	18°369	3°558
28044	8	10°886	13°827	28118	9	6°005	18°184	28192*	38	25°367	22°193					28400	22	19°641	3°369
28045	9	14°353	13°492	28119	8	7°797	18°140	28193*	49	0°490	23°696					28401	12	21°893	3°540
28046*	40	14°429	13°505	28120	10	8°291	18°349	28194*	48	0°853	23°717					28402	11	22°155</	

28409	15	2.819	4.993	28483	12	15.825	6.179	28557	10	19.530	8.860	28631	14	22.051	11.555	28705	23	11.050	14.823
28410*	48	4.101	4.707	28484	19	16.829	6.612	28558	11	21.326	8.131	28632	10	22.252	11.774	28706	10	11.434	14.664
28411	21	4.557	4.207	28485	11	18.719	6.671	28559	10	22.003	8.394	28633*	31	22.276	11.830	28707*	40	12.007	14.320
28412	20	6.061	4.853	28486	22	18.911	6.922	28560	13	22.297	8.854	28634	9	22.307	11.971	28708	23	12.200	14.246
28413	13	6.746	4.355	28487	9	19.988	6.524	28561	10	23.754	8.230	28635	10	22.639	11.238	28709	9	13.354	14.533
28414	15	7.331	4.485	28488	13	20.012	6.093	28562	12	23.761	8.280	28636	12	23.513	11.505	28710*	40	13.954	14.515
28415	11	8.129	4.375	28489	21	20.709	6.583	28563	22	24.289	8.748	28637	12	23.666	11.250	28711	12	15.142	14.448
28416	13	9.036	4.661	28490	10	22.203	6.669	28564	12	24.876	8.277	28638	15	24.035	11.548	28712	10	20.807	14.288
28417	11	9.635	4.720	28491	10	22.375	6.895	28565	13	0.249	9.129	28639	12	24.135	11.292	28713	12	21.714	14.131
28418	20	9.706	4.171	28492	12	23.016	6.038	28566	15	1.002	9.465	28640	13	25.357	11.263	28714	13	22.382	14.780
28419	19	10.672	4.820	28493	11	23.026	6.084	28567*	43	1.131	9.602	28641	18	25.379	11.501	28715	14	22.460	14.293
28420	12	11.078	4.511	28494	10	23.225	6.580	28568	22	1.733	9.759	28642	9	25.777	11.036	28716	19	23.024	14.030
28421	16	12.004	4.021	28495	10	23.269	6.164	28569	22	1.976	9.890	28643	20	2.278	12.791	28717	18	24.746	14.418
28422	11	13.021	4.780	28496	12	24.025	6.163	28570	13	4.784	9.083	28644	11	3.624	12.648	28718	15	0.078	15.561
28423	9	13.369	4.930	28497	12	24.857	6.332	28571	20	7.599	9.572	28645	11	3.787	12.052	28719	10	1.608	15.103
28424	19	13.721	4.919	28498	19	25.617	6.933	28572	26	7.601	9.412	28646	12	6.045	12.471	28720	14	1.933	15.268
28425	23	14.777	4.193	28499	14	1.707	7.448	28573	14	7.616	9.781	28647	9	6.074	12.670	28721	13	1.941	15.237
28426	9	16.489	4.321	28500	30	2.221	7.531	28574	15	9.032	9.394	28648	12	6.586	12.413	28722	18	2.600	15.278
28427	10	16.868	4.775	28501	27	2.685	7.989	28575	12	9.929	9.254	28649	11	6.951	12.649	28723	12	2.881	15.395
28428	8	17.379	4.398	28502	16	3.068	7.174	28576	13	11.272	9.163	28650	9	9.028	12.543	28724	14	3.323	15.670
28429	10	17.952	4.897	28503	12	3.336	7.672	28577	18	13.378	9.907	28651	11	9.112	12.792	28725	13	5.213	15.788
28430	10	19.371	4.573	28504	18	4.066	7.050	28578	22	17.255	9.296	28652	12	9.144	12.016	28726	10	6.452	15.189
28431	10	19.506	4.664	28505	26	4.359	7.822	28579	10	18.799	9.215	28653*	18	10.326	12.851	28727	10	7.036	15.485
28432	14	20.123	4.446	28506	12	4.588	7.813	28580	18	20.418	9.054	28654	20	11.037	12.192	28728	10	8.445	15.686
28433	20	22.548	4.947	28507	18	4.882	7.736	28581	12	21.173	9.170	28655	15	12.150	12.745	28729*	23	8.849	15.101
28434	13	22.640	4.829	28508	11	5.571	7.760	28582	26	21.490	9.660	28656	11	12.225	12.575	28730	21	9.807	15.320
28435	9	23.735	4.326	28509	13	6.729	7.255	28583	12	23.754	9.195	28657	17	15.101	12.280	28731	23	10.081	15.459
28436	10	23.840	4.597	28510	18	7.500	7.564	28584	10	24.032	9.580	28658	14	15.163	12.119	28732*	34	10.219	15.843
28437	16	25.294	4.255	28511	21	9.150	7.440	28585	12	24.923	9.419	28659*	24	15.421	12.934	28733	10	10.393	15.995
28438	22	25.518	4.935	28512	18	10.293	7.838	28586	19	0.493	10.023	28660	13	17.820	12.207	28734	12	10.723	15.304
28439	14	1.944	5.986	28513	17	10.359	7.215	28587	24	0.632	10.999	28661	15	17.914	12.948	28735	14	11.939	15.205
28440	17	2.085	5.717	28514	12	12.655	7.425	28588	14	1.728	10.621	28662	13	18.186	12.752	28736	10	12.704	15.916
28441*	31	2.129	5.965	28515	11	13.284	7.327	28589*	21	3.185	10.294	28663	22	18.577	12.453	28737	15	12.966	15.649
28442	14	2.347	5.740	28516	12	13.962	7.164	28590	13	3.869	10.040	28664	11	18.756	12.129	28738	12	14.235	15.660
28443	17	2.365	5.781	28517	11	14.921	7.919	28591	22	5.242	10.482	28665	13	19.389	12.378	28739	11	15.361	15.099
28444	16	3.124	5.623	28518	12	15.376	7.831	28592	18	7.344	10.947	28666	10	19.681	12.980	28740	18	15.490	15.027
28445	13	3.813	5.128	28519*	33	16.066	7.750	28593	13	8.030	10.216	28667	11	21.415	12.861	28741	25	16.880	15.534
28446	16	4.115	5.506	28520	26	16.488	7.774	28594	24	8.749	10.518	28668	13	21.719	12.257	28742	11	18.407	15.621
28447	18	5.016	5.220	28521	11	17.609	7.649	28595*	26	10.198	10.903	28669	11	23.895	12.908	28743	10	20.164	15.184
28448	12	5.154	5.356	28522	10	19.800	7.374	28596	13	10.698	10.278	28670	12	24.916	12.080	28744	10	20.342	15.674
28449	11	8.237	5.457	28523	17	20.058	7.156	28597	13	11.565	10.097	28671	12	2.240	13.390	28745*	25	22.601	15.395
28450	10	8.642	5.959	28524	14	20.577	7.101	28598	13	13.499	10.108	28672	10	3.380	13.607	28746	14	23.749	15.340
28451	14	9.353	5.176	28525	10	20.612	7.308	28599	13	15.494	10.089	28673	14	5.248	13.177	28747	18	24.617	15.571
28452	12	10.706	5.676	28526	18	20.622	7.422	28600	12	16.756	10.000	28674	12	5.899	13.799	28748	17	24.686	15.736
28453	12	13.705	5.632	28527	13	20.924	7.367	28601	11	18.092	10.868	28675	9	6.229	13.913	28749	24	25.206	15.520
28454	14	14.232	5.478	28528	10	22.943	7.125	28602	12	19.119	10.556	28676	14	8.018	13.184	28750	13	25.472	15.309
28455	10	15.738	5.524	28529	10	23.873	7.954	28603	10	19.341	10.320	28677	10	8.471	13.279	28751	11	25.979	15.297
28456	11	18.042	5.658	28530	26	25.209	7.291	28604	15	19.689	10.448	28678	12	8.782	13.798	28752	30	1.117	16.269
28457	18	18.091	5.544	28531	10	25.660	7.955	28605	11	19.923	10.810	28679	11	9.195	13.971	28753	16	2.659	16.010
28458	11	18.929	5.517	28532*	29	25.754	7.991	28606	11	20.351	10.078	28680	13	10.029	13.161	28754	27	5.379	16.483
28459	17	19.196	5.430	28533	19	0.601	8.912	28607	15	20.512	10.973	28681	11	11.149	13.852	28755	12	7.060	16.904
28460	13	21.734	5.833	28534	18	0.788	8.696	28608	10	20.628	10.104	28682	12	14.209	13.683	28756	10	7.717	16.967
28461	11	21.734	5.246	28535	16	1.527	8.531	28609	14	22.281	10.108	28683	17	15.184	13.137	28757	10	9.363	16.552
28462	12	21.831	5.938	28536	9	2.646	8.701	28610	11	22.464	10.207	28684	13	15.713	13.396	28758	12	11.222	16.050
28463	9	22.426	5.709	28537*	35	3.433	8.252	28611	10	22.745	10.501	28685	11	16.308	13.938	28759	21	12.702	16.801
28464	23	23.170	5.816	28538	18	3.438	8.460	28612	9	23.393	10.344	28686	16	16.522	13.239	28760	12	13.247	16.140
28465	12	23.278	5.654	28539	9	5.015	8.522	28613	10	24.746	10.209	28687	16	16.933	13.514	28761	11	13.628	16.930
28466	11	24.580	5.727	28540	24	5.052	8.181	28614	20	0.471	11.640	28688	12	17.771	13.269	28762	11	13.942	16.033
28467	18	1.139	6.741	28541	11	5.320	8.562	28615	21	1.936	11.341	28689	11	18.255	13.517	28763	9	14.701	16.538
28468	16	3.741	6.370	28542	10	6.752	8.099	28616	16	3.527	11.736	28690	16	19.100	13.056	28764	11	14.877	16.629
28469	23	4.016	6.142	28543	10	7.223	8.043	28617	12	7.009	11.004	28691	15	19.108	13.276	28765	15	15.016	16.520
28470	12	4.695	6.519	28544	9	7.456	8.380	28618	14	7.340	11.593	28692	11	20.613	13.098	28766*	70	16.590	16.025
28471	20	5.110	6.631	28545	16	9.785	8.108	28619	19	7.980	11.422	28							

28779	18	8'914	17'191	28853	12	23'813	19'240	28927	14	1'596	23'419	29057	13	1'893	3'094
28780	8	9'206	17'229	28854	11	24'956	19'091	28928*	42	3'302	23'150	29058	12	2'602	3'055
28781	14	9'531	17'605	28855	12	25'402	19'846	28929	27	3'897	23'520	29059	9	3'265	3'997
28782	12	9'899	17'877	28856	26	0'117	20'542	28930	18	3'913	23'943	29060	8	5'280	3'507
28783	8	10'740	17'049	28857	25	3'222	20'498	28931	14	5'314	23'097	29061	8	5'356	3'326
28784	13	15'229	17'677	28858	27	3'719	20'598	28932	13	5'543	23'170	29062	10	6'747	3'757
28785	18	17'319	17'504	28859	20	5'031	20'387	28933	22	7'011	23'749	29063	9	6'898	3'631
28786	11	17'468	17'205	28860	13	5'802	20'839	28934	10	8'278	23'291	29064	30	7'108	3'127
28787	13	17'607	17'484	28861	12	8'469	20'882	28935	9	8'312	23'481	29065	9	7'928	3'500
28788	10	19'471	17'803	28862	12	11'265	20'550	28936*	41	9'919	23'354	29066	8	7'995	3'697
28789	11	20'255	17'470	28863*	26	12'182	20'147	28937	9	10'654	23'072	29067	9	8'835	3'562
28790	26	20'256	17'920	28864*	25	16'130	20'066	28938	11	10'960	23'739	29068	8	10'120	3'510
28791	16	20'383	17'464	28865	13	18'213	20'740	28939	18	11'021	23'933	29069	9	10'313	3'498
28792	12	21'291	17'147	28866	11	18'237	20'820	28940	10	12'186	23'317	29070	6	10'933	3'267
28793	17	21'621	17'452	28867	10	18'464	20'835	28941	13	12'220	23'201	29071	7	15'287	3'374
28794	10	21'625	17'737	28868	13	19'643	20'006	28942	10	15'164	23'439	29072	9	16'649	3'802
28795	11	22'569	17'660	28869	10	19'754	20'694	28943	13	15'763	23'277	29073*	27	17'118	3'332
28796	12	22'664	17'780	28870	12	19'759	20'493	28944	10	16'127	23'368	29074	9	17'374	3'434
28797	11	23'569	17'086	28871	24	19'793	20'097	28945	9	16'264	23'941	29075	11	20'643	3'356
28798	12	24'441	17'419	28872	15	19'956	20'339	28946	14	16'811	23'686	29076	16	21'233	3'813
28799	12	24'602	17'313	28873	13	20'046	20'596	28947	10	17'283	23'356	29077	10	25'464	3'274
28800	14	25'028	17'415	28874	11	21'095	20'700	28948	23	18'631	23'027	29078	12	0'534	4'753
28801	17	0'741	18'415	28875	9	21'146	20'520	28949*	33	19'054	23'341	29079	13	0'625	4'636
28802	26	1'470	18'469	28876	13	21'942	20'479	28950	9	21'626	23'524	29080	11	3'504	4'675
28803	25	1'474	18'420	28877	13	23'636	20'644	28951	10	24'048	23'307	29081	9	6'461	4'731
28804	18	3'073	18'825	28878	12	23'724	20'235	28952	26	2'321	24'761	29082	8	6'619	4'947
28805*	29	3'078	18'869	28879	17	3'410	21'897	28953	24	4'654	24'805	29083	12	10'227	4'190
28806	20	3'149	18'204	28880	14	4'160	21'662	28954	21	4'793	24'820	29084	9	12'749	4'326
28807	12	3'952	18'819	28881	19	5'359	21'099	28955	18	5'236	24'979	29085	14	14'410	4'427
28808	15	4'096	18'215	28882	12	5'877	21'498	28956	17	7'036	24'037	29086	8	14'938	4'354
28809	11	5'035	18'678	28883	20	5'941	21'015	28957	21	8'735	24'393	29087*	14	15'662	4'785
28810	11	6'161	18'910	28884	11	8'495	21'282	28958	13	8'950	24'390	29088	10	17'623	4'554
28811	11	6'944	18'451	28885	18	10'444	21'453	28959	16	9'389	24'411	29089	10	18'294	4'933
28812	10	8'143	18'115	28886	26	10'830	21'190	28960	17	11'532	24'632	29090	8	18'875	4'940
28813	14	9'655	18'142	28887	13	11'015	21'715	28961	12	12'113	24'826	29091	7	18'922	4'870
28814	22	9'700	18'131	28888	11	11'329	21'126	28962	11	12'516	24'528	29092*	20	19'653	4'401
28815	20	9'799	18'660	28889	9	12'582	21'695	28963	13	13'299	24'420	29093	8	21'261	4'297
28816*	41	11'316	18'127	28890	17	15'360	21'543	28964	13	14'721	24'965	29094	12	22'449	4'070
28817	17	11'327	18'094	28891*	43	16'311	21'599	28965	10	16'215	24'175	29095	10	23'447	4'092
28818	10	11'406	18'756	28892	12	16'738	21'010	28966	11	16'463	24'950	29096*	20	23'758	4'493
28819	13	13'005	18'157	28893	10	17'323	21'056	28967	12	16'631	24'753	29097	12	24'747	4'807
28820	12	13'990	18'791	28894	13	17'399	21'935	28968	21	16'637	24'264	29098	14	1'176	5'607
28821	17	15'712	18'950	28895	10	17'436	21'504	28969	9	17'072	24'931	29099	9	1'282	5'445
28822	11	15'863	18'225	28896	10	20'334	21'667	28970	10	17'487	24'033	29100	7	1'288	5'952
28823	10	17'232	18'308	28897	10	20'975	21'310	28971	12	17'763	24'199	29101	10	2'585	5'484
28824	9	17'937	18'627	28898	12	21'472	21'725	28972*	20	18'831	24'496	29102	9	4'577	5'232
28825	14	21'275	18'609	28899	21	21'501	21'050	28973	12	20'589	24'090	29103	9	8'253	5'374
28826	16	22'135	18'603	28900	26	25'143	21'786	28974	14	24'224	24'819	29104	9	9'367	5'370
28827	22	22'239	18'602	28901	14	25'446	21'111	28975	18	1'867	25'598	29105	10	9'848	5'910
28828	13	24'544	18'616	28902*	28	0'676	22'603	28976	23	4'821	25'149	29106	9	12'393	5'194
28829	37	0'952	19'461	28903	11	1'000	22'582	28977	17	6'046	25'451	29107	9	13'735	5'055
28830	19	3'889	19'247	28904	17	1'212	22'403	28978	19	8'681	25'334	29108	14	15'655	5'266
28831	12	5'120	19'126	28905*	48	3'639	22'412	28979	11	10'473	25'020	29109	8	17'274	5'473
28832	11	7'329	19'763	28906	12	4'154	22'837	28980*	40	11'534	25'692	29110	10	21'554	5'954
28833	9	8'306	19'340	28907	18	4'419	22'684	28981	12	12'688	25'214	29111	12	21'881	5'084
28834	13	10'100	19'091	28908	17	4'740	22'843	28982	10	13'082	25'798	29112	9	23'178	5'597
28835	16	10'961	19'600	28909	12	5'129	22'539	28983	11	13'687	25'174	29113	11	24'380	5'478
28836	18	11'181	19'725	28910	14	7'400	22'784	28984	13	14'105	25'878	29114	14	24'801	5'424
28837	25	11'371	19'470	28911	31	7'460	22'084	28985	11	15'909	25'543	29115	10	24'838	5'132
28838	12	11'406	19'942	28912	11	7'684	22'343	28986	10	16'365	25'029	29116	8	1'250	6'369
28839	9	11'509	19'629	28913	12	12'252	22'859	28987	13	16'393	25'982	29117	9	3'651	6'669
28840	11	11'536	19'764	28914	13	12'943	22'190	28988	16	17'184	25'116	29118	8	4'236	6'437
28841*	26	12'020	19'829	28915	19	15'571	22'101	28989	11	18'909	25'577	29119	8	6'402	6'941
28842	16	12'616	19'290	28916*	22	16'217	22'827	28990	12	22'337	25'074	29120	6	6'994	6'007
28843	10	13'012	19'616	28917	13	16'823	22'704	28991	16	23'090	25'050	29121	6	7'749	6'453
28844	12	13'339	19'321	28918	10	17'049	22'271	28992	23	25'275	25'911	29122	9	8'751	6'039
28845	10	13'915	19'235	28919	11	18'254	22'511	28993	15	25'723	25'087	29123*	20	9'086	6'667
28846	10	14'563	19'668	28920	12	19'163	22'464					29124	8	9'207	6'032
28847	11	14'750	19'002	28921	10	20'323	22'079					29125	10	10'377	6'890
28848	10	14'953	19'609	28922	9	22'355	22'951					29126	10	12'174	6'484
28849	11	16'778	19'993	28923	13	23'449	22'040					29127	8	12'787	6'635
28850	13	16'982	19'708	28924	10	24'835	22'585					29128	10	14'062	6'088
28851	12	20'014	19'712	28925	15	24'980	22'949					29129	6	17'189	6'857
28852	12	22'767	19'639	28926	26	25'271	22'715					29130	8	17'872	6'492

R. A. 7^h 24^m

Plate 1328; 1899 Feb. 24.

Provisional Constants.

A	B	C
-00049	+00660	-3023

D	E	F
-00659	-00028	-0829

Mag. = 14'8 - 1'25 \sqrt{d}

No.	d	x	y
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29002	13	1°257	0°566
29003	17	5°166	0°666
29004	20	6°476	0°964
29005	8	7°395	0°929
29006	11	8°028	0°611
29007	10	8°157	0°894
29008*	30	10°100	0°925
29009	14	12°732	0°815
29010	8	16°604	0°693
29011	12	17°143	0°213
29012	10	18°596	0°757
29013	8	18°745	0°304
29014	10	19°673	0°395
29015	12	20°110	0°838
29016	11	21°413	0°137
29017	10	21°727	0°621
29018	13	22°131	0°205
29019	14	0°584	1°768
29020	12	2°801	1°880
29021	12	3°672	1°653
29022	10	3°692	1°604
29023	8	4°922	1°147
29024	6	6°002	1°665
29025	12	7°036	1°095
29026	9	7°088	1°146
29027	10	8°268	1°460
29028*	14	8°415	1°768
29029	9	9°160	1°372
29030	8	9°635	1°133
29031	10	11°536	1°556
29032	9	15°023	1°159
29033*	22	16°254	1°840
29034	10	18°286	1°562
29035	9	18°745	1°891
29036	10	20°143	1°636
29037	9	20°737	1°744
29038	12	22°932	1°227
29039	13	23°284	1°473
29040*	30	25°035	1°727
29041	13	4°173	2°222
29042*	30	4°292	2°439
29043	10	8°736	2°470
29044	9	10°736	2°851
29045	8	11°958	2°975
29046	6	14°256	2°864
29047	8	14°291	2°335
29048	9	14°508	2°461
29049	8	17°303	2°352
29050*	26	18°164	2°876
29051	10	18°495	2°823
29052	15	20°697	2°167
29053	18	22°754	2°557
29054	9	23°507	2°588
29055	14	25°683	2°243
29056	14	1°550	3°727

29131	11	21'732	6'192	29205	9	14'592	10'545	29279	15	24'884	13'797	29353	9	13'267	17'774	29427	10	9'872	21'503
29132	10	22'356	6'780	29206	7	15'736	10'637	29280*	18	25'232	13'327	29354	8	13'328	17'072	29428	12	10'555	21'759
29133	15	24'824	6'646	29207	8	16'784	10'813	29281	10	0'669	14'100	29355	12	15'209	17'315	29429	8	11'348	21'779
29134	7	1'932	7'728	29208	7	17'130	10'016	29282	12	2'958	14'172	29356*	14	15'219	17'312	29430	9	11'389	21'097
29135	18	3'249	7'036	29209	8	18'318	10'323	29283	8	5'832	14'366	29357	7	17'214	17'643	29431	8	11'823	21'877
29136	10	3'723	7'690	29210	12	20'019	10'921	29284	9	5'879	14'917	29358	10	17'374	17'247	29432	7	16'142	21'395
29137*	20	3'816	7'724	29211	9	21'996	10'056	29285	8	6'036	14'602	29359	9	18'801	17'872	29433*	14	16'982	21'796
29138	11	4'572	7'744	29212	8	22'394	10'454	29286	6	7'254	14'980	29360	6	20'509	17'729	29434	8	17'037	21'727
29139	7	5'612	7'196	29213	11	22'543	10'123	29287	7	7'476	14'903	29361	13	22'208	17'209	29435	10	19'168	21'731
29140	8	6'197	7'373	29214	7	24'682	10'648	29288	7	7'665	14'483	29362	9	23'083	17'296	29436	11	20'636	21'586
29141	9	6'692	7'118	29215	15	24'905	10'823	29289	8	7'771	14'126	29363	10	23'706	17'127	29437*	12	23'495	21'966
29142	6	7'689	7'194	29216	8	25'399	10'755	29290	19	8'423	14'994	29364	9	24'943	17'957	29438	13	25'571	21'452
29143	8	7'927	7'355	29217	9	0'196	11'373	29291	12	11'881	14'704	29365	9	0'446	18'419	29439	10	3'396	22'696
29144	9	9'552	7'459	29218*	23	0'427	11'644	29292	8	12'645	14'504	29366	12	0'548	18'417	29440	13	3'681	22'455
29145	8	10'455	7'546	29219	7	1'799	11'033	29293	9	12'851	14'539	29367	7	2'858	18'374	29441	10	4'992	22'936
29146	8	13'666	7'727	29220	7	2'178	11'322	29294	8	14'219	14'682	29368	8	3'280	18'838	29442	10	5'607	22'777
29147	12	14'918	7'584	29221	9	3'073	11'831	29295	9	15'427	14'367	29369	8	5'419	18'400	29443	11	5'652	22'575
29148	7	15'275	7'986	29222	7	3'491	11'003	29296	17	16'356	14'367	29370	6	7'758	18'738	29444	10	7'724	22'131
29149	8	16'118	7'992	29223	10	3'519	11'243	29297	8	18'767	14'854	29371	14	9'026	18'513	29445	7	7'731	22'400
29150	12	16'496	7'879	29224	8	4'570	11'654	29298	8	19'218	14'413	29372*	22	9'597	18'526	29446	8	7'906	22'668
29151	9	16'881	7'880	29225	9	6'673	11'541	29299	11	21'436	14'727	29373	10	9'839	18'843	29447	8	9'909	22'350
29152	12	18'746	7'019	29226	7	8'303	11'714	29300	9	23'552	14'166	29374	7	10'273	18'492	29448	7	11'313	22'625
29153	8	21'397	7'629	29227*	30	8'953	11'104	29301	10	24'384	14'179	29375	6	11'018	18'511	29449	9	12'644	22'546
29154	9	23'038	7'976	29228*	22	9'039	11'278	29302*	40	25'669	14'977	29376*	18	15'099	18'208	29450	8	12'811	22'687
29155	10	23'124	7'851	29229	7	11'724	11'851	29303	12	0'162	15'857	29377*	8	15'194	18'157	29451	8	13'526	22'796
29156	9	24'360	7'600	29230	8	11'799	11'034	29304*	26	0'835	15'200	29378*	13	16'645	18'645	29452	10	16'439	22'760
29157	8	24'675	7'744	29231	8	12'001	11'765	29305	8	1'982	15'116	29379	6	19'484	18'766	29453	9	22'881	22'778
29158	20	25'125	7'034	29232	8	13'864	11'226	29306	10	2'857	15'330	29380	8	19'616	18'694	29454	8	4'759	23'307
29159	9	25'312	7'163	29233	11	15'126	11'469	29307	10	2'927	15'489	29381	9	20'795	18'549	29455	9	8'113	23'363
29160	8	0'376	8'664	29234	7	15'164	11'713	29308	14	3'445	15'264	29382	12	22'262	18'636	29456	6	14'052	23'555
29161	8	1'825	8'059	29235	8	15'182	11'449	29309	9	3'705	15'050	29383	20	24'548	18'315	29457	14	16'409	23'287
29162	11	1'841	8'974	29236	10	16'648	11'176	29310	9	5'706	15'857	29384	10	24'621	18'703	29458	9	17'190	23'483
29163	14	2'366	8'515	29237	14	16'916	11'385	29311	13	7'013	15'887	29385	9	24'709	18'263	29459	11	18'697	23'566
29164	8	4'950	8'718	29238	9	18'719	11'805	29312*	27	7'256	15'640	29386	14	25'899	18'678	29460	10	19'488	23'876
29165	7	4'962	8'313	29239	8	18'950	11'444	29313	8	8'042	15'937	29387	9	1'100	19'443	29461	10	19'629	23'106
29166	12	6'056	8'867	29240	10	19'864	11'908	29314	11	11'753	15'692	29388	9	2'138	19'018	29462	9	23'470	23'386
29167	9	7'201	8'016	29241	8	20'504	11'599	29315	8	12'120	15'321	29389	8	3'742	19'587	29463	12	24'628	23'034
29168	11	8'645	8'837	29242	9	20'516	11'514	29316	9	14'608	15'791	29390	10	4'522	19'827	29464	12	5'137	24'513
29169	7	9'105	8'230	29243	10	23'769	11'693	29317	8	16'227	15'334	29391	10	6'168	19'514	29465*	21	6'033	24'857
29170*	20	10'891	8'405	29244	7	24'424	11'605	29318	12	16'302	15'855	29392	8	9'539	19'170	29466	10	9'062	24'063
29171	9	12'656	8'223	29245	6	2'073	12'682	29319	8	18'373	15'737	29393	8	10'720	19'090	29467	7	10'062	24'957
29172	8	12'779	8'393	29246	12	6'772	12'135	29320	9	19'033	15'234	29394	8	12'633	19'871	29468	8	12'012	24'392
29173	9	17'732	8'589	29247	8	7'277	12'723	29321	10	20'083	15'268	29395	8	13'488	19'866	29469	12	12'494	24'621
29174	10	17'835	8'799	29248	7	7'485	12'213	29322	9	22'826	15'207	29396	7	13'892	19'187	29470*	20	13'889	24'633
29175	7	19'703	8'137	29249	6	7'650	12'869	29323	9	23'227	15'713	29397*	14	17'025	19'735	29471*	12	14'903	24'133
29176	7	21'069	8'323	29250	14	7'799	12'884	29324	10	24'031	15'747	29398	7	17'130	19'582	29472*	20	17'089	24'805
29177	8	21'431	8'166	29251	8	9'560	12'247	29325	11	24'471	15'785	29399	12	19'159	19'596	29473	10	19'010	24'942
29178	14	25'117	8'957	29252	9	14'893	12'857	29326	10	24'922	15'395	29400*	12	20'971	19'987	29474	12	21'281	24'028
29179	11	25'290	8'610	29253	8	15'568	12'706	29327	7	1'841	16'866	29401	10	21'788	19'109	29475*	20	21'525	24'115
29180	9	0'393	9'923	29254	7	15'808	12'286	29328	9	2'603	16'549	29402	10	23'030	19'964	29476	14	3'758	25'654
29181	7	7'895	9'212	29255	17	16'416	12'838	29329	7	3'526	16'680	29403	9	23'565	19'604	29477	11	4'348	25'738
29182	8	8'363	9'641	29256	8	18'483	12'319	29330	7	6'388	16'656	29404	12	24'071	19'492	29478	12	5'274	25'314
29183	7	9'728	9'183	29257	9	19'458	12'008	29331	11	7'230	16'784	29405	8	3'816	20'849	29479	17	6'182	25'570
29184	8	10'880	9'065	29258	8	20'294	12'076	29332	9	7'770	16'947	29406	12	4'596	20'293	29480	11	6'598	25'725
29185	12	11'639	9'567	29259	12	21'308	12'363	29333	12	8'733	16'647	29407	9	7'042	20'446	29481	13	7'682	25'690
29186	8	11'900	9'510	29260	9	23'061	12'247	29334	8	9'369	16'559	29408	14	7'446	20'002	29482	12	11'402	25'690
29187	7	12'146	9'965	29261	14	23'295	12'764	29335	10	10'280	16'775	29409	8	9'116	20'127	29483	12	12'254	25'088
29188	10	12'943	9'496	29262	9	24'364	12'382	29336	8	12'487	16'597	29410	8	9'685	20'304	29484	10	12'315	25'494
29189	10	13'469	9'930	29263	14	25'608	12'387	29337	8	12'910	16'487	29411	7	10'654	20'491	29485	9	13'299	25'860
29190	9	16'145	9'507	29264	20	0'975	13'381	29338	10	13'325	16'381	29412	9	13'421	20'816	29486	8	18'600	25'027
29191*	20	17'499	9'755	29265	12	1'225	13'824	29339	11	13'768	16'523	29413*	20	13'630	20'693	29487	20	19'799	25'606
29192*	20	17'780	9'376	29266	10	1'522	13'006	29340	7	17'565	16'498	29414	6	13'815	20'033	29488	11	25'551	25'282
29193	12	24'988	9'016	29267	6	7'189	13'807	29341	6	21'303	16'999	29415	8	14'737	20'309	29489	15	25'837	

R. A. 7^h 32^m

Plate 1360 ; 1899 Mar. 24.

Provisional Constants.

$$\begin{array}{r} \text{A} \\ - \cdot 00028 \\ \text{B} \\ + \cdot 01260 \\ \text{C} \\ - \cdot 3987 \end{array}$$

D	E	F
-01286	-00022	-0180

$$Maq. = 15.1 - 1.25 \sqrt{d}$$

No.	d	x	y
29501	7	5'824	0'790
29502	6	7'483	0'858
29503	6	8'736	0'917
29504	8	10'014	0'365
29505	7	22'761	0'524
29506	5	23'585	0'883
29507	6	0'926	1'440
29508	12	1'285	1'679
29509*	30	3'045	1'898
29510	5	4'025	1'516
29511	5	8'411	1'623
29512	5	12'171	1'904
29513*	32	12'405	1'550
29514	6	13'350	1'842
29515*	28	14'255	1'096
29516	5	15'885	1'807
29517	6	17'503	1'365
29518	8	21'616	1'717
29519	8	24'619	1'726
29520	16	0'779	2'775
29521	7	1'534	2'788
29522	10	3'702	2'402
29523	5	4'135	2'807
29524*	38	4'394	2'730
29525	13	5'806	2'064
29526	10	7'184	2'653
29527	7	7'264	2'235
29528	8	9'240	2'036
29529*	28	9'905	2'194
29530	10	11'095	2'985
29531	14	11'396	2'493
29532	20	11'810	2'417
29533	5	11'816	2'456
29534	7	13'821	2'855
29535	7	17'565	2'335
29536	5	18'188	2'068
29537	9	19'124	2'875
29538	6	21'557	2'440
29539	8	3'506	3'436
29540	6	5'045	3'205
29541	5	6'465	3'054
29542*	29	6'765	3'641
29543	5	7'475	3'364
29544	5	7'777	3'333
29545	5	7'845	3'906
29546	15	12'976	3'773
29547	6	14'294	3'065
29548	5	15'080	3'367
29549	6	16'392	3'724
29550	7	16'625	3'995
29551	6	16'944	3'536
29552	8	17'299	3'068
29553	10	19'181	3'030
29554	6	19'876	3'851
29555	8	21'155	3'595
29556	10	1'504	4'295
29572	11	19'379	4'704
29573	14	19'404	4'983
29574	14	20'899	4'536
29575	10	21'265	4'172
29576	6	21'484	4'401
29577*	40	23'523	4'126
29578	7	24'567	4'370
29579	7	2'466	5'664
29580	12	2'886	5'600
29581	6	2'913	5'307
29582	9	7'276	5'819
29583	6	7'923	5'183
29584	7	8'116	5'825
29585	12	10'105	5'726
29586	7	10'235	5'106
29587	6	11'659	5'096
29588	12	12'545	5'105
29589	10	13'254	5'064
29590	8	13'956	5'154
29591	6	14'811	5'082
29592	5	15'171	5'677
29593	8	15'560	5'300
29594	7	15'942	5'525
29595	8	17'053	5'338
29596	5	17'529	5'475
29597	5	17'689	5'316
29598	6	20'570	5'511
29599	18	21'576	5'087
29600	5	25'116	5'425
29601	6	25'182	5'216
29602*	23	25'726	5'103
29603	19	2'935	6'818
29604*	35	4'326	6'747
29605	8	4'327	6'444
29606	7	4'347	6'463
29607	10	9'122	6'193
29608	8	12'305	6'443
29609	7	13'484	6'265
29610	8	15'205	6'960
29611*	60	15'843	6'174
29612	7	22'051	6'061
29613	6	24'710	6'620
29614	6	0'469	7'005
29615	5	2'812	7'919
29616	22	3'245	7'205
29617	5	3'433	7'326
29618	6	8'632	7'838
29619	6	12'286	7'715
29620*	58	13'215	7'825
29621	6	14'767	7'465
29622	6	15'309	7'742
29623*	36	15'555	7'272
29624	5	17'292	7'710
29625	6	17'505	7'009
29626	6	17'811	7'711
29627	14	18'036	7'305
29628	10	20'362	7'432
29629	9	22'110	7'220
29630	17	22'661	7'418
29640	5	22'198	8'315
29641	20	23'904	8'154
29642	6	24'948	8'466
29643	8	25'033	8'936
29644	6	25'855	8'226
29645	10	3'146	9'190
29646	16	3'276	9'124
29647	7	3'438	9'565
29648	8	3'464	9'402
29649	9	4'715	9'654
29650	14	6'673	9'074
29651	5	6'744	9'085
29652	11	7'269	9'749
29653	8	7'898	9'317
29654	6	9'846	9'195
29655	24	10'535	9'711
29656	5	10'661	9'193
29657	10	12'416	9'456
29658	8	12'865	9'283
29659	9	13'432	9'994
29660	10	14'865	9'345
29661	5	19'830	9'206
29662	12	23'626	9'209
29663	6	24'098	9'205
29664	13	24'595	9'201
29665	5	25'385	9'530
29666	7	0'176	10'292
29667	6	0'582	10'676
29668	12	0'725	10'345
29669	6	2'876	10'825
29670	18	3'104	10'995
29671	6	3'596	10'918
29672	7	4'674	10'214
29673	11	6'548	10'375
29674	6	10'437	10'338
29675	11	11'087	10'330
29676	5	11'528	10'655
29677	5	16'965	10'861
29678	6	24'368	10'366
29679	8	1'986	11'888
29680	6	2'924	11'965
29681	5	5'226	11'504
29682	5	7'919	11'315
29683	16	8'916	11'187
29684	7	9'065	11'037
29685	11	9'187	11'715
29686	10	9'702	11'010
29687	10	10'587	11'398
29688	5	11'914	11'327
29689	6	13'496	11'465
29690*	22	13'560	11'764
29691	7	17'951	11'334
29692	6	23'549	11'121
29693	6	1'288	12'457
29694	18	1'535	12'969
29695	6	2'593	12'564
29696	12	3'839	12'545
29697	6	5'682	12'364
29698	7	6'261	12'092
29699	19	13'784	16'417
29700	5	9'594	17'954
29701	8	3'484	13'492
29702*	7	4'956	13'104
29703	6	5'165	13'573
29704	5	6'027	13'083
29705	6	7'246	13'753
29706	7	9'005	13'258
29707	8	10'741	13'959
29708	5	13'578	13'809
29709	10	13'900	13'615
29710	6	14'426	13'043
29711	6	15'708	13'304
29712	21	16'094	13'325
29713	17	16'693	13'339
29714	5	16'726	13'363
29715	16	20'192	13'865
29716	8	22'038	13'840
29717	7	25'046	13'175
29718	5	0'136	14'227
29719	6	1'822	14'366
29720	26	1'875	14'138
29721*	8	2'654	14'361
29722	8	5'239	14'655
29723	8	5'615	14'946
29724	30	6'924	14'417
29725	8	8'985	14'597
29726	6	9'373	14'828
29727*	10	9'404	14'175
29728	6	13'242	14'698
29729	8	14'862	14'371
29730	5	18'064	14'853
29731	7	18'382	14'185
29732	8	19'705	14'613
29733	5	20'851	14'715
29734	6	21'523	14'493
29735	7	1'115	15'424
29736	9	2'333	15'936
29737	10	2'774	15'965
29738	7	3'215	15'564
29739*	45	3'954	15'133
29740	6	5'115	15'755
29741	37	9'693	15'730
29742	6	10'015	15'908
29743	12	13'396	15'311
29744	6	18'199	15'984
29745	10	18'235	15'915
29746	6	18'839	15'490
29747*	46	20'895	15'096
29748	7	22'109	15'430
29749	6	22'640	15'873
29750	5	23'075	15'682
29751	5	24'759	15'244
29752	14	6'266	16'076
29753	8	9'345	16'970
29754	18	10'610	16'170
29755	10	11'976	16'465
29756	11	12'075	16'996
29757	10	12'105	16'869
29758	7	12'507	16'869
29759	19	13'784	16'417
29760	5	12'452	17'954
29761	7	13'715	17'094
29762	5	15'509	17'826
29763	8	16'387	17'084
29764	6	18'136	17'074
29765	7	18'331	17'289
29766	6	19'026	17'975
29767	18	19'202	17'966
29768	9	19'216	17'856
29769	10	19'535	17'900
29770	7	20'407	17'057
29771	6	21'312	17'672
29772	10	0'625	18'864
29773	22	2'900	18'495
29774	8	2'981	18'881
29775	5	3'060	18'437
29776	6	3'287	18'130
29777	10	4'263	18'825
29778	16	5'476	18'266
29779	7	7'026	18'576
29780	6	7'712	18'575
29781*	12	8'203	18'909
29782	6	9'146	18'936
29783	6	12'304	18'208
29784	6	14'298	18'319
29785	13	15'142	18'274
29786	8	15'437	18'532
29787	7	15'461	18'224
29788	6	19'657	18'846
29789	5	20'276	18'285
29790	5	20'660	18'348
29791	6	20'934	18'788
29792	6	21'063	18'610
29793	6	25'425	18'454
29794	7	0'158	19'347
29795	6	1'946	19'804
29796	5	2'450	19'680
29797	7	5'559	19'304
29798	6	6'831	19'800
29799	6	6'876	19'174
29800	7	7'356	19'262
29801	6	8'537	19'037
29802	7	9'624	19'085
29803	7	11'404	19'915
29804*	7	13'456	19'358
29805	6	16'027	19'809
29806	6	16'609	19'458
29807	7	17'176	19'533
29808	7	17'368	19'718
29809	10	20'577	19'140
29810	6	23'274	19'037
29811	11	23'949	19'162
29812	7	25'074	19'969
29813	20	0'979	20'398
29814	6	1'423	20'175
29815	7	7'066	20'763
29816	8	9'135	20'070

29853*	16	10°254	20°739	29927	14	17°816	25°174	30049	10	7°926	2°069	30123	16	19°118	5°155	30197	6	17°132	8°822
29854	6	15°936	20°907	29928	6	19°341	25°441	30050	21	8°673	2°464	30124	8	19°815	5°224	30198	12	18°957	8°307
29855	7	16°170	20°835	29929	10	24°148	25°822	30051	16	9°045	2°004	30125	13	20°774	5°497	30199	13	19°702	8°274
29856	10	18°706	20°817					30052	12	9°115	2°775	30126	6	21°980	5°125	30200	6	21°183	8°272
29857	8	19°380	20°371					30053	7	11°445	2°387	30127	7	25°145	5°201	30201	10	21°816	8°485
29858	8	19°525	20°344					30054	5	12°861	2°039	30128*	62	25°409	5°802	30202	17	24°054	8°754
29859	5	19°591	20°923					30055	14	14°994	2°388	30129	10	0°255	6°296	30203	32	24°317	8°936
29860	6	19°928	20°538					30056	5	16°803	2°852	30130	10	2°918	6°839	30204	7	25°726	8°355
29861	16	20°825	20°685					30057	6	17°462	2°848	30131	8	3°425	6°456	30205	8	25°872	8°613
29862	9	21°337	20°902					30058	10	19°556	2°276	30132	15	5°804	6°245	30206	6	1°125	9°442
29863	10	25°666	20°366					30059	5	23°305	2°250	30133	14	5°948	6°476	30207	21	1°854	9°437
29864	7	25°826	20°977					30060	6	23°512	2°134	30134	5	6°135	6°439	30208	7	2°321	9°430
29865	6	3°993	21°607					30061	10	25°442	2°902	30135	5	6°814	6°559	30209	20	2°820	9°254
29866	8	6°471	21°595					30062	19	25°564	2°801	30136*	66	7°095	6°670	30210	11	3°257	9°156
29867	5	7°176	21°806					30063	5	1°112	3°475	30137	6	7°196	6°928	30211	7	3°615	9°745
29868	10	8°789	21°107					30064	27	4°424	3°990	30138	10	7°945	6°663	30212	5	3°616	9°814
29869	20	10°876	21°892					30065	8	5°315	3°933	30139	9	10°651	6°957	30213	6	4°924	9°573
29870	7	17°005	21°286					30066	9	6°006	3°817	30140	10	11°899	6°343	30214	6	5°485	9°423
29871	7	17°214	21°680					30067	26	7°736	3°050	30141	5	14°780	6°511	30215	12	5°716	9°211
29872	6	19°839	21°679					30068	5	8°048	3°897	30142	16	15°165	6°266	30216*	29	7°224	9°198
29873	6	23°964	21°007					30069	5	9°489	3°235	30143	5	15°506	6°925	30217	5	7°239	9°871
29874*	18	24°152	21°321					30070	6	9°555	3°853	30144	7	15°685	6°875	30218	20	7°630	9°814
29875*	8	1°923	22°168					30071	18	14°046	3°530	30145	6	17°264	6°417	30219	8	7°845	9°209
29876	12	4°594	22°917					30072	6	17°726	3°224	30146	6	20°195	6°045	30220	6	7°947	9°170
29877*	20	5°246	22°334					30073	8	17°838	3°850	30147	16	20°947	6°067	30221	10	9°205	9°182
29878	5	8°174	22°298					30074	10	18°116	3°864	30148	9	23°886	6°505	30222	6	9°277	9°291
29879	7	9°070	22°417					30075	10	18°408	3°405	30149	10	25°658	6°173	30223	5	12°230	9°208
29880	8	10°479	22°434					30076	9	19°754	3°694	30150	6	25°716	6°810	30224	10	14°495	9°465
29881	11	14°985	22°372					30077	7	21°373	3°205	30151	13	0°324	7°456	30225	26	15°004	9°391
29882	6	19°235	22°047					30078	6	21°635	3°648	30152	26	0°875	7°654	30226	5	18°850	9°231
29883	13	19°384	22°755					30079	7	22°055	3°514	30153	8	3°546	7°022	30227	7	19°598	9°599
29884	7	20°547	22°704					30080	5	25°736	3°635	30154	30	3°805	7°634	30228	7	19°636	9°983
29885	6	21°380	22°562					30081	8	25°866	3°593	30155	14	3°937	7°722	30229	8	20°228	9°050
29886	6	22°075	22°134					30082*	58	1°716	4°358	30156	6	4°816	7°758	30230	6	20°322	9°339
29887	7	22°626	22°565					30083	10	2°756	4°594	30157	5	4°893	7°645	30231*	28	21°300	9°848
29888	10	23°921	22°725					30084	6	2°982	4°182	30158	6	5°096	7°088	30232*	63	21°717	9°693
29889	7	3°084	23°215					30085	5	4°469	4°114	30159	6	6°380	7°512	30233	7	2°602	10°587
29890	7	6°085	23°314					30086	7	4°610	4°094	30160	5	8°735	7°030	30234	6	3°688	10°328
29891	5	7°014	23°482					30087	11	5°652	4°060	30161*	45	9°732	7°588	30235	5	3°946	10°259
29892	8	7°905	23°568					30088	10	6°174	4°219	30162	6	9°903	7°150	30236	5	3°972	10°051
29893	6	9°364	23°197					30089	17	7°845	4°094	30163	16	12°666	7°541	30237	6	4°836	10°349
29894	5	14°547	23°208					30090	10	8°156	4°803	30164	5	15°847	7°805	30238	9	5°570	10°844
29895*	10	16°373	23°667					30091	5	10°016	4°309	30165	5	18°145	7°298	30239	10	5°934	10°117
29896	6	18°301	23°886					30092	14	10°184	4°136	30166	16	18°153	7°897	30240	10	6°254	10°144
29897	8	20°049	23°540					30093	9	10°796	4°885	30167	5	18°562	7°923	30241	8	6°579	10°754
29898	10	20°500	23°466					30094	18	12°444	4°484	30168	12	21°617	7°295	30242	5	6°874	10°307
29899	9	23°385	23°334					30095	20	12°485	4°206	30169	7	22°015	7°437	30243	24	9°163	10°975
29900	13	4°705	24°370					30096	8	13°496	4°050	30170*	42	22°491	7°063	30244	5	9°284	10°213
29901	10	7°023	24°888					30097	7	14°593	4°578	30171	14	25°635	7°226	30245	7	10°211	10°180
29902	5	8°748	24°674					30098	6	15°155	4°494	30172	8	0°417	8°550	30246	6	10°445	10°275
29903	10	9°690	24°314					30099	10	15°707	4°467	30173	31	2°124	8°383	30247	7	10°719	10°237
29904*	24	9°894	24°359					30100	30	18°758	4°172	30174	5	2°143	8°905	30248	8	12°024	10°502
29905	5	13°907	24°158					30101	8	19°025	4°037	30175	10	3°167	8°686	30249	12	12°390	10°415
29906	5	13°959	24°993					30102	13	19°851	4°208	30176	6	3°622	8°169	30250	8	12°714	10°631
29907*	16	14°866	24°905					30103*	40	20°016	4°824	30177	8	4°076	8°441	30251	7	13°097	10°276
29908	6	16°206	24°983					30104	10	21°274	4°486	30178	6	4°186	8°255	30252	8	14°796	10°554
29909*	27	17°565	24°458					30105	8	22°725	4°431	30179	7	5°865	8°642	30253	7	15°142	10°734
29910	7	20°548	24°764					30106	6	22°936	4°857	30180	6	5°884	8°824	30254	6	16°985	10°387
29911	6	21°117	24°310					30107	23	23°245	4°087	30181	6	5°994	8°787	30255	16	18°340	10°156
29912	7	23°450	24°003					30108	6	0°974	5°522	30182	6	6°144	8°289	30256	11	18°473	10°700
29913	9	24°075	24°202					30109	8	3°321	5°643	30183	5	7°855	8°166	30257	30	18°613	10°671
29914	8	4°051	25°437					30110	10	3°383	5°434	30184*	120	8°409	8°532	30258	8	19°043	10°521
29915	7	4°341	25°557					30111*	36	3°927	5°315	30185	5	9°413	8°924	30259	7	19°386	10°795
29916	6	6°316	25°016					30112	5	4°134	5°318	30186	8	10°116	8°541	30260	8	20°906	10°775
29917	7	8°866	25°955					30113	10	4°934	5°588	30187	13	11°297	8°903	30261	6	23°291	10°945
29918	18	9°110	25°842					30114	28	5°135	5°194	30188	7	13°164	8°926	30262*	45	24°437	10°199
29919*	19	10°215	25°765					30115	8	7°085	5°933	30189	6	13°635	8°015	30263	7	25°822	10°679
29920	6	11°248	25°871					30116	10	7°372	5°858	30190	5	14°226	8°886	30264	7	1°358	11°627
29921	8	13°398	25°953					30117	10	10°166	5°649	30191	8	14°313	8°211	30265	10	1°789	11°348
29922	18	13°796	25°598					30118*	41	10°238	5°275	30192	14	14°505	8°530	30266	8	4°771	11°482
29923	5	14°665	25°252					30119	5	10°556	5°212	30193	10	14°617	8°205	30267	10	6°284	11°270

30271	6	9°377	11°292	30345	12	10°776	14°935	30419	6	18°295	16°977	30493	5	6°985	19°421	30567	8	7°814	22°593
30272	5	9°763	11°321	30346	6	11°171	14°987	30420	5	21°373	16°576	30494	7	7°446	19°516	30568	28	8°953	22°070
30273	7	11°608	11°908	30347	5	12°056	14°845	30421*	37	22°145	16°935	30495	6	9°340	19°449	30569	11	9°206	22°322
30274	5	13°605	11°264	30348	11	12°355	14°798	30422	10	23°022	16°135	30496	6	11°502	19°377	30570	6	9°360	22°034
30275	12	13°754	11°523	30349	7	12°604	14°569	30423	5	24°733	16°821	30497	6	11°858	19°403	30571	6	10°228	22°013
30276	6	14°111	11°651	30350	7	13°643	14°333	30424	9	25°533	16°476	30498	26	12°484	19°351	30572	10	10°335	22°494
30277	16	16°015	11°634	30351	5	15°391	14°905	30425	10	25°682	16°925	30499	7	13°272	19°397	30573	5	10°507	22°430
30278	5	16°252	11°305	30352	18	15°530	14°857	30426	6	3°263	17°376	30500	7	14°205	19°565	30574	7	11°702	22°750
30279	9	16°395	11°963	30353*	35	15°769	14°195	30427	12	4°000	17°057	30501	5	14°353	19°321	30575	9	13°364	22°716
30280	8	18°693	11°823	30354	12	17°270	14°900	30428	8	4°157	17°326	30502	10	15°554	19°402	30576	5	13°606	22°074
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30282	12	20°174	11°883	30356	10	20°814	14°435	30430	12	4°402	17°278	30504	6	17°220	19°176	30578	8	14°608	22°319
30283	6	20°277	11°677	30357	6	21°404	14°956	30431	6	4°745	17°284	30505	9	18°003	19°910	30579	5	14°968	22°560
30284	6	20°946	11°512	30358	10	22°414	14°395	30432	7	4°937	17°094	30506	8	19°132	19°574	30580	6	15°106	22°202
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30286	10	23°506	11°706	30360	14	23°005	14°434	30434	5	5°659	17°200	30508	9	19°790	19°144	30582	18	16°950	22°142
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30300	19	14°313	12°599	30374	15	9°315	15°445	30448	10	16°984	17°369	30522	8	10°134	20°495	30596	5	10°691	23°729
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30322	18	6°357	13°155	30396	7	5°777	16°390	30470	17	11°351	18°293	30544	20	6°390	21°235	30618	9	14°509	24°557
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30333	7	23°265	13°055	30407	5	12°199	16°122	30481	20	21°094	18°515	30555	6						

30641	5	19°461	25°274	30746	8	3°973	3°734	30820	7	12°960	9°104	30894	12	1°007	15°556	30968	13	4°549	21°833
30642	6	19°816	25°744	30747	6	8°057	3°559	30821	7	14°597	9°815	30895	7	1°252	15°812	30969	11	5°515	21°825
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30644	5	21°734	25°228	30749	6	13°897	3°662	30823	9	18°495	9°093	30897	14	5°266	15°491	30971	7	9°835	21°715
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				30756	13	4°254	4°039	30830*	39	2°661	10°365	30904	6	3°869	16°624	30978	8	16°155	21°694
				30757	11	7°095	4°558	30831	9	5°997	10°440	30905	8	5°040	16°625	30979	12	20°566	21°407
				30758	7	8°100	4°797	30832	10	6°796	10°196	30906	8	5°786	16°885	30980	9	24°084	21°219
				30759	12	8°993	4°618	30833	6	9°245	10°591	30907*	16	7°125	16°377	30981	7	24°384	21°706
				30760	8	9°056	4°721	30834	9	10°231	10°514	30908	5	7°955	16°014	30982	9	25°165	21°404
				30761	7	16°614	4°384	30835	5	10°556	10°911	30909	7	9°094	16°971	30983	5	3°518	22°082
				30762	5	18°815	4°954	30836	6	11°576	10°085	30910	6	10°199	16°255	30984	8	5°362	22°987
				30763	9	19°461	4°463	30837	14	13°945	10°777	30911	5	12°694	16°880	30985	9	5°935	22°924
				30764	20	19°497	4°502	30838	11	16°832	10°234	30912	14	17°787	16°932	30986	14	13°167	22°874
				30765	5	24°713	4°413	30839*	41	22°373	10°205	30913	7	20°201	16°627	30987	14	13°182	22°856
				30766	5	3°268	5°350	30840	10	24°204	10°917	30914	9	20°391	16°364	30988	22	21°609	22°013
				30767*	60	3°557	5°948	30841	8	24°385	10°425	30915	8	20°697	16°895	30989	10	23°726	22°617
				30768	6	4°305	5°226	30842	6	1°326	11°816	30916	8	23°518	16°165	30990	8	24°474	22°283
				30769	10	5°764	5°057	30843	6	3°886	11°965	30917	7	23°831	16°768	30991	7	25°102	22°357
				30770	11	7°575	5°569	30844	9	4°932	11°028	30918*	29	0°483	17°137	30992	10	6°585	23°229
				30771	8	10°567	5°010	30845	6	9°604	11°745	30919	6	1°915	17°554	30993	11	7°415	23°914
				30772	7	11°362	5°934	30846	14	12°105	11°915	30920*	40	4°417	17°335	30994	6	9°816	23°379
				30773	15	14°060	5°782	30847	9	13°624	11°714	30921	8	7°022	17°566	30995*	12	13°155	23°614
				30774	6	15°187	5°915	30848	7	17°394	11°963	30922	23	7°459	17°579	30996	8	16°007	23°029
				30775	20	16°174	5°306	30849	18	18°215	11°946	30923	6	12°238	17°737	30997	7	17°846	23°096
				30776	15	21°986	5°295	30850	12	18°925	11°295	30924	9	16°804	17°287	30998	17	22°661	23°883
				30777	6	2°045	6°678	30851	9	20°668	11°314	30925	9	17°319	17°562	30999	9	25°508	23°589
				30778	7	3°814	6°317	30852	7	20°779	11°719	30926	11	17°478	17°683	31000	7	1°989	24°116
				30779	18	6°528	6°755	30853	16	20°837	11°501	30927	8	22°776	17°997	31001	11	5°347	24°699
				30780	7	11°894	6°599	30854	7	4°644	12°776	30928*	21	24°438	17°604	31002	14	8°216	24°068
				30781	6	12°953	6°492	30855	11	6°535	12°997	30929	7	4°335	18°864	31003	6	9°270	24°509
				30782*	40	15°144	6°045	30856	9	6°903	12°746	30930	12	7°047	18°224	31004	8	9°777	24°446
				30783*	38	17°752	6°759	30857	5	8°342	12°085	30931	9	8°346	18°819	31005	5	12°486	24°126
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				30785	7	21°819	6°663	30859	12	10°056	12°045	30933*	28	14°344	18°565	31007	9	13°374	24°161
				30786	6	22°622	6°180	30860	6	10°464	12°468	30934*	31	15°659	18°632	31008	14	15°482	24°037
				30787*	37	0°656	7°264	30861	8	12°092	12°679	30935	5	19°471	18°644	31009	7	15°643	24°845
				30788	11	3°805	7°373	30862*	31	12°121	12°795	30936	5	25°803	18°443	31010	8	16°353	24°497
				30789	7	6°626	7°189	30863	9	16°642	12°924	30937	14	11°537	19°834	31011	9	17°404	24°737
				30790	11	6°793	7°514	30864	8	17°146	12°231	30938	7	15°135	19°696	31012	7	18°657	24°856
				30791	7	11°824	7°014	30865*	46	18°195	12°005	30939	13	16°085	19°107	31013	7	3°636	25°135
				30792	9	11°979	7°133	30866	8	18°582	12°295	30940	7	17°008	19°936	31014	14	6°152	25°494
				30793	7	11°986	7°441	30867	11	23°722	12°851	30941	6	21°644	19°286	31015	7	6°366	25°007
				30794	15	12°029	7°816	30868	6	0°435	13°470	30942	5	22°695	19°273	31016	11	8°606	25°653
				30795	11	15°446	7°275	30869	8	0°982	13°046	30943	8	23°361	19°177	31017	5	9°086	25°338
				30796	5	19°760	7°424	30870	6	1°534	13°242	30944	13	24°604	19°526	31018	5	15°415	25°834
				30797	5	20°056	7°256	30871	23	2°734	13°135	30945	6	4°282	20°477	31019	5	16°995	25°903
				30798	11	20°432	7°845	30872	12	3°467	13°526	30946	8	4°935	20°364	31020	5	19°063	25°017
				30799	6	22°335	7°662	30873	13	4°106	13°055	30947	7	6°251	20°652	31021	7	19°455	25°294
				30800	5	0°007	8°695	30874*	47	6°683	13°865	30948	10	6°302	20°983	31022	16	20°704	25°972
				30801	12	2°249	8°927	30875	7	11°744	13°074	30949	7	6°339	20°256	31023	5	20°845	25°749
				30802	5	3°912	8°501	30876*	16	12°375	13°576	30950	12	7°393	20°115	31024	5	21°584	25°305
				30803	6	4°067	8°753	30877	8	12°698	13°102	30951	13	7°605	20°883				
				30804	7	5°196	8°899	30878	13	18°025	13°784	30952	8	11°284	20°955				
				30805	8	7°814	8°623	30879	17	21°986	13°955	30953	16	11°749	20°131				
				30806	6	12°186	8°125	30880	7	23°568	13°323	30954	6	14°064	20°431				
				30807	11	12°657	8°164	30881	16	23°737	13°533	30955	7	15°407	20°101				
				30808	6	15°300	8°655	30882	9	1°298	14°623	30956	8	15°548	20°207				
				30809	5	16°208	8°323	30883	14	3°392	14°327	30957	16	16°034	20°369				
				30810*	47	16°844	8°374	30884	5	4°440	14°436	30958	8	17°122	20°505				
				30811*	28	17°525	8°135	30885*	29	6°709	14°324	30959	7	17°285	20°536				
				30812	9	18°741	8°937	30886	19	7°975	14°322	30960	6	18°106	20°257				
				30813	19	20°897	8°389	30887	5	11°884	14°904	30961	12	22°254	20°445				
				30814	7	23°794	8°145	30888	7	12°541	14°267	30962	16	23°963	20°954				
				30815	5	25°165	8°401	30889	11	14°472	14°893	30963	10	1°864	21°098				
				30816	27	2°521	9°129	30890	9	16°443	14°334	30964	11	2°585	21°612				
				30817	13	4°893	9°522	30891	11	19°787	14°018	30965	14	2°688	21°				

R. A. 7^h 56^m

Plate 1516 ; 1900 Mar. 20.

Provisional Constants.

A	B	C
-00059	+00593	-4258

D	E	F
-00616	-00011	-3804

Mag. = 15.2 - 1.25 \sqrt{d}

No.	d	x	y
31101	18	1.493	0.835
31102	13	5.700	0.430
31103	20	6.299	0.664
31104	16	11.915	0.388
31105	20	12.951	0.018
31106*	20	14.349	0.109
31107	20	19.898	0.741
31108	18	22.115	0.754
31109	9	23.133	0.176
31110	17	3.724	1.666
31111	10	6.295	1.304
31112*	23	8.148	1.512
31113	19	8.585	1.670
31114	9	9.311	1.516
31115	12	13.557	1.763
31116	12	15.157	1.997
31117	18	19.117	1.720
31118	16	19.683	1.814
31119	10	23.190	1.368
31120	20	23.224	1.709
31121	19	3.403	2.585
31122	20	6.008	2.452
31123	13	8.701	2.666
31124	19	10.362	2.009
31125*	29	11.272	2.819
31126*	22	12.846	2.261
31127	12	13.244	2.946
31128	9	14.556	2.559
31129	19	15.645	2.889
31130	9	17.604	2.890
31131	18	19.624	2.264
31132	14	20.821	2.498
31133	16	22.085	2.151
31134	16	23.880	2.225
31135	7	24.267	2.374
31136	17	4.875	3.615
31137	17	7.425	3.537
31138	12	8.084	3.564
31139	19	10.969	3.033
31140	20	11.313	3.446
31141	21	15.432	3.344
31142	20	15.861	3.116
31143	9	17.992	3.678
31144	8	18.008	3.087
31145*	20	18.421	3.727
31146	6	20.621	3.348
31147	16	22.618	3.494
31148	18	24.868	3.472
31149	17	25.289	3.209
31150*	21	6.802	4.763
31151	14	8.991	4.059
31152	14	12.577	4.811
31153	8	14.300	4.424
31154	20	15.099	4.454
31155	11	16.327	4.720
31156	10	16.946	4.404

R. A. 8^h 4^m

Plate 2816 ; 1910 Feb. 4.

Provisional Constants.

A	B	C
-00033	-00293	-0647

D	E	F
+00268	-00024	-2147

Mag. = 16.4 - 1.25 \sqrt{d}

No.	d	x	y
31501	15	1.572	0.486
31502	19	7.253	0.794
31503	10	7.437	0.195
31504*	40	8.060	0.550
31505	15	8.936	0.243
31506	23	9.975	0.997
31507	10	11.312	0.983
31508	26	11.455	0.934
31509	15	14.189	0.529
31510	11	15.676	0.979
31511	27	16.040	0.311

31512	8	17°12	0°282	31586*	29	3°213	4°678	31660	18	0°454	8°396	31734	15	17°602	10°492	31808	25	8°500	12°631
31513	16	19°133	0°068	31587	16	3°696	4°794	31661	12	2°469	8°074	31735	13	17°917	10°481	31809	6	8°834	12°059
31514	21	0°555	1°076	31588	21	3°852	4°799	31662	27	2°892	8°786	31736*	31	19°466	10°023	31810	11	9°456	12°457
31515	7	1°049	1°832	31589*	37	4°275	4°793	31663	16	3°171	8°362	31737	7	20°929	10°366	31811	10	10°148	12°576
31516	14	1°635	1°681	31590	32	6°106	4°764	31664	21	4°856	8°111	31738	6	21°304	10°975	31812	15	10°538	12°601
31517	7	3°188	1°789	31591	7	6°549	4°976	31665	5	4°944	8°817	31739	17	21°483	10°768	31813	9	11°043	12°360
31518	24	4°907	1°732	31592*	43	7°116	4°506	31666	10	6°468	8°569	31740	16	22°852	10°072	31814	27	11°761	12°578
31519	9	9°481	1°289	31593	10	9°304	4°331	31667	13	7°074	8°737	31741	17	23°226	10°496	31815	8	11°982	12°019
31520	12	11°504	1°688	31594	30	9°338	4°562	31668	14	10°876	8°028	31742	21	23°322	10°215	31816	6	12°061	12°174
31521	9	11°606	1°278	31595	5	10°197	4°117	31669	23	11°931	8°924	31743	32	23°374	10°758	31817	21	13°289	12°075
31522	8	12°411	1°430	31596	14	11°248	4°430	31670	11	13°220	8°928	31744	11	24°959	10°966	31818	7	13°362	12°469
31523	12	14°020	1°348	31597	7	11°836	4°577	31671	7	13°527	8°573	31745	20	25°123	10°403	31819	15	13°613	12°163
31524	18	14°022	1°349	31598	23	12°092	4°029	31672	12	13°534	8°626	31746	13	25°810	10°068	31820*	33	14°481	12°907
31525	13	14°815	1°319	31599	11	13°624	4°881	31673	10	13°931	8°764	31747	21	25°816	10°241	31821	16	14°536	12°247
31526	14	15°654	1°163	31600	5	13°817	4°632	31674	11	17°387	8°888	31748	18	2°085	11°762	31822*	27	14°787	12°446
31527	17	17°893	1°343	31601	15	14°342	4°712	31675	9	20°517	8°813	31749	6	2°352	11°153	31823	13	15°278	12°027
31528	9	18°699	1°303	31602	13	15°166	4°218	31676	20	21°590	8°504	31750	12	3°219	11°548	31824	20	16°441	12°592
31529	10	19°656	1°989	31603	13	15°425	4°583	31677	19	22°741	8°788	31751	17	4°317	11°449	31825	22	16°852	12°210
31530	19	19°811	1°947	31604	11	17°778	4°916	31678	7	23°273	8°223	31752	6	5°038	11°133	31826	6	17°016	12°679
31531	13	22°963	1°928	31605	21	19°945	4°187	31679	9	25°429	8°887	31753	5	5°344	11°174	31827	13	18°499	12°954
31532	22	25°435	1°551	31606	11	25°016	4°781	31680	5	25°759	8°390	31754	9	5°400	11°173	31828	11	18°892	12°641
31533	11	25°985	1°209	31607	9	25°363	4°147	31681	25	25°867	8°605	31755	18	5°533	11°104	31829	8	20°748	12°073
31534	18	0°533	2°470	31608	8	0°513	5°894	31682	8	0°305	9°836	31756	13	6°555	11°715	31830	9	21°874	12°024
31535	30	1°672	2°027	31609	18	1°657	5°435	31683	32	1°218	9°789	31757	14	6°594	11°967	31831*	40	22°743	12°972
31536	9	1°817	2°986	31610	11	3°452	5°740	31684	7	1°281	9°754	31758	22	6°785	11°369	31832	19	2°436	13°841
31537	7	1°938	2°992	31611	31	4°049	5°526	31685	14	1°842	9°803	31759	5	6°855	11°026	31833	10	4°722	13°030
31538	22	2°328	2°535	31612	23	6°368	5°004	31686	11	2°921	9°409	31760	13	8°897	11°988	31834	23	5°415	13°447
31539	14	2°718	2°684	31613	15	8°521	5°942	31687	24	3°567	9°818	31761*	32	9°935	11°907	31835*	29	6°599	13°141
31540	6	2°927	2°349	31614	7	9°804	5°247	31688	9	4°974	9°848	31762	16	10°054	11°640	31836	9	8°947	13°637
31541	7	3°150	2°550	31615	12	13°229	5°449	31689	24	7°890	9°444	31763	10	10°240	11°686	31837	14	10°634	13°769
31542	10	5°996	2°327	31616	10	13°606	5°032	31690*	35	8°226	9°737	31764	18	11°319	11°958	31838	13	10°933	13°394
31543	30	6°846	2°703	31617	21	14°206	5°673	31691	22	8°618	9°403	31765*	34	11°364	11°411	31839	12	11°225	13°783
31544	19	7°914	2°192	31618	24	14°624	5°366	31692	13	9°519	9°760	31766	14	11°562	11°126	31840	10	11°483	13°634
31545	11	8°704	2°510	31619	7	14°953	5°495	31693	9	10°037	9°375	31767*	33	11°671	11°603	31841	12	12°766	13°997
31546	5	9°081	2°485	31620	24	16°299	5°142	31694	7	11°093	9°783	31768	7	11°833	11°899	31842	12	14°402	13°937
31547	21	10°405	2°296	31621	19	17°121	5°934	31695	23	13°092	9°025	31769	13	12°723	11°252	31843	8	14°524	13°895
31548	19	10°481	2°376	31622	8	18°070	5°182	31696	13	13°224	9°074	31770	6	13°778	11°937	31844	10	15°735	13°754
31549	17	10°668	2°197	31623	12	20°454	5°398	31697	5	13°642	9°229	31771	8	14°873	11°332	31845	14	17°431	13°157
31550	29	15°071	2°628	31624	13	24°842	5°181	31698	11	13°765	9°738	31772	14	15°842	11°353	31846	18	20°094	13°302
31551	10	17°584	2°773	31625	32	24°967	5°172	31699	16	13°954	9°971	31773	13	16°371	11°672	31847	24	20°489	13°792
31552	22	17°815	2°254	31626*	37	0°555	6°545	31700	11	14°834	9°891	31774	14	17°726	11°900	31848	10	20°577	13°853
31553	11	17°956	2°556	31627*	40	3°734	6°032	31701	5	14°918	9°627	31775	15	18°369	11°442	31849	21	23°847	13°841
31554	9	20°591	2°795	31628	8	4°063	6°649	31702	9	15°172	9°948	31776	7	19°664	11°626	31850*	34	25°770	13°364
31555	19	1°074	3°813	31629	14	4°624	6°330	31703	13	15°323	9°481	31777	14	20°422	11°484	31851	15	1°714	14°412
31556	7	1°783	3°932	31630	9	4°630	6°420	31704	12	16°455	9°079	31778	11	20°603	11°149	31852	16	3°533	14°838
31557	13	2°426	3°970	31631	11	5°513	6°640	31705	12	16°498	9°863	31779	13	21°116	11°752	31853	17	4°381	14°192
31558	25	3°327	3°781	31632	26	7°188	6°249	31706	7	16°564	9°977	31780	12	22°404	11°140	31854	11	6°894	14°184
31559	24	3°746	3°513	31633	15	8°217	6°066	31707	11	16°876	9°180	31781	10	22°673	11°274	31855	7	6°904	14°210
31560	7	9°264	3°422	31634	14	9°663	6°193	31708	12	16°963	9°254	31782	14	22°940	11°348	31856	22	7°717	14°173
31561	5	10°129	3°373	31635	9	11°329	6°072	31709	14	17°835	9°225	31783	7	23°514	11°846	31857	9	9°216	14°227
31562	19	10°456	3°888	31636	28	11°604	6°234	31710	9	18°315	9°188	31784	8	23°876	11°957	31858	23	10°532	14°534
31563	13	11°429	3°884	31637	14	13°294	6°343	31711	22	19°740	9°259	31785	27	24°205	11°467	31859	7	10°728	14°935
31564	7	11°763	3°789	31638	9	13°616	6°249	31712	14	20°374	9°011	31786	14	24°261	11°943	31860	22	10°833	14°501
31565	21	13°724	3°682	31639	11	15°080	6°748	31713	17	20°887	9°053	31787	7	24°370	11°637	31861*	49	11°297	14°231
31566	36	14°106	3°420	31640	15	15°458	6°625	31714	6	22°856	9°886	31788	8	25°136	11°466	31862	13	11°336	14°077
31567	13	14°437	3°863	31641	28	15°637	6°892	31715	8	24°023	9°732	31789	18	25°370	11°632	31863	9	12°973	14°358
31568	15	15°129	3°565	31642	33	17°578	6°893	31716	29	24°296	9°814	31790	6	25°642	11°013	31864	6	13°458	14°793
31569	16	16°789	3°570	31643	7	18°146	6°444	31717*	34	1°077	10°110	31791	15	0°066	12°387	31865	14	17°600	14°501
31570	12	17°871	3°275	31644	11	18°226	6°844	31718	13	1°151	10°523	31792*	27	1°261	12°010	31866	8	17°904	14°819
31571	14	18°638	3°976	31645	10	19°404	6°413	31719	14	2°117	10°472	31793	24	1°268	12°550	31867	10	19°323	14°077
31572	7	18°908	3°043	31646	23	21°303	6°966	31720	15	3°390	10°736	31794	14	2°167	12°069	31868	13	19°705	14°883
31573	11	19°217	3°935	31647	7	21°621	6°382	31721*	32	3°658	10°296	31795*	22	2°826	12°458	31869	36	19°931	14°288
31574	7	19°576	3°529	31648	22	22°452	6°678	31722	24	3°713	10°793	31796*	24	3°815	12°354	31870	22	20°032	14°835
31575																			

31882	23	9°537	15°844	31956	18	16°443	17°487	32030	6	7°160	20°797	32104	9	12°862	23°572
31883	16	10°170	15°024	31957	31	16°634	17°566	32031	16	7°346	20°466	32105	14	13°046	23°303
31884	15	10°251	15°723	31958	16	19°689	17°222	32032	26	7°765	20°145	32106	13	13°394	23°694
31885	7	11°457	15°508	31959	26	21°495	17°094	32033	7	8°172	20°033	32107	14	13°873	23°157
31886	13	11°499	15°116	31960	13	21°907	17°274	32034	6	8°484	20°236	32108	10	14°552	23°300
31887	21	11°524	15°662	31961	12	0°285	18°433	32035	14	9°604	20°567	32109	7	18°511	23°786
31888	14	11°910	15°051	31962	13	1°027	18°200	32036	24	9°708	20°223	32110	10	18°605	23°969
31889	22	12°059	15°894	31963	27	1°553	18°743	32037	15	10°504	20°645	32111*	31	20°148	23°834
31890	13	12°702	15°722	31964	8	4°644	18°521	32038	11	11°067	20°616	32112	5	20°398	23°761
31891	12	13°183	15°603	31965	9	5°851	18°812	32039	12	12°732	20°702	32113	13	20°575	23°286
31892	14	13°204	15°637	31966	16	7°361	18°031	32040	7	13°125	20°983	32114	7	20°689	23°879
31893	14	14°667	15°957	31967	13	8°768	18°792	32041	8	13°194	20°809	32115	13	21°694	23°452
31894	6	15°543	15°600	31968	17	9°167	18°983	32042	13	14°038	20°172	32116	11	22°195	23°083
31895	13	17°834	15°095	31969	7	9°845	18°192	32043	12	14°082	20°437	32117	22	22°206	23°889
31896	25	18°567	15°604	31970	14	9°945	18°678	32044	20	15°897	20°241	32118	6	22°919	23°422
31897	11	19°590	15°754	31971	13	12°874	18°400	32045	5	17°480	20°332	32119	8	23°445	23°639
31898	12	20°099	15°196	31972	9	14°035	18°774	32046	7	17°785	20°753	32120	27	25°982	23°679
31899	26	20°938	15°673	31973	10	14°522	18°481	32047	7	19°714	20°466	32121	21	0°043	24°709
31900	21	23°637	15°198	31974	12	14°998	18°349	32048	16	20°589	20°822	32122	24	1°405	24°312
31901	21	0°934	16°246	31975	10	15°444	18°705	32049	9	21°012	20°907	32123	13	2°748	24°220
31902	5	1°929	16°008	31976	15	15°842	18°773	32050*	33	21°156	20°239	32124	11	4°717	24°728
31903*	33	3°303	16°102	31977	10	15°917	18°890	32051	30	22°381	20°409	32125	6	8°367	24°275
31904	21	4°166	16°130	31978*	23	16°408	18°032	32052	11	22°472	20°820	32126	22	8°794	24°044
31905	7	4°727	16°772	31979	18	17°091	18°985	32053	7	23°201	20°033	32127	14	10°079	24°767
31906	12	5°293	16°858	31980	17	17°382	18°285	32054	21	23°908	20°167	32128	17	10°396	24°465
31907	13	5°564	16°406	31981	14	17°472	18°081	32055	7	24°601	20°764	32129	16	10°599	24°696
31908	15	7°456	16°282	31982	15	17°699	18°211	32056	21	24°893	20°076	32130	7	13°615	24°482
31909	11	9°377	16°124	31983	16	18°320	18°888	32057	30	25°928	20°542	32131	8	13°809	24°281
31910	11	9°455	16°537	31984*	41	18°461	18°582	32058	22	1°771	21°363	32132	12	14°241	24°652
31911	15	9°722	16°131	31985	22	20°614	18°179	32059	18	2°273	21°232	32133	13	14°820	24°049
31912	15	10°617	16°597	31986	5	21°279	18°157	32060	19	2°962	21°473	32134	17	15°776	24°088
31913	7	10°744	16°638	31987	6	22°204	18°493	32061	10	6°105	21°458	32135	13	17°024	24°249
31914	10	11°254	16°649	31988	15	22°671	18°977	32062	22	7°971	21°869	32136	8	17°927	24°060
31915	10	12°833	16°364	31989	14	24°237	18°050	32063	13	12°393	21°467	32137	6	18°803	24°407
31916	8	14°203	16°726	31990	11	24°255	18°546	32064	21	13°553	21°032	32138	12	18°918	24°855
31917	18	14°776	16°067	31991	19	24°342	18°216	32065	9	14°817	21°358	32139	9	19°144	24°818
31918	13	14°915	16°621	31992	12	25°444	18°173	32066	6	16°874	21°733	32140	18	19°188	24°783
31919	9	15°702	16°498	31993	17	0°971	19°256	32067	5	16°929	21°776	32141	22	19°517	24°854
31920	32	15°918	16°847	31994	13	1°430	19°793	32068	11	17°698	21°556	32142	11	19°719	24°451
31921	16	16°579	16°606	31995	23	7°466	19°176	32069	12	19°492	21°137	32143	5	19°894	24°742
31922	13	17°014	16°913	31996	7	7°510	19°070	32070	9	20°601	21°835	32144	11	21°268	24°600
31923	9	17°032	16°687	31997	5	8°062	19°385	32071	21	22°707	21°606	32145	14	22°225	24°327
31924*	34	17°832	16°475	31998	6	8°097	19°105	32072	10	23°484	21°312	32146*	38	22°660	24°706
31925	22	17°990	16°499	31999	14	8°564	19°216	32073	16	25°065	21°444	32147	12	23°143	24°384
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31927	6	20°886	16°582	32001	16	10°916	19°008	32075*	37	2°291	22°169	32149	21	1°779	25°248
31928	18	21°167	16°220	32002	15	11°022	19°097	32076	30	4°573	22°699	32150	11	2°814	25°135
31929	24	21°339	16°199	32003	14	11°153	19°045	32077	27	5°223	22°152	32151	14	4°240	25°337
31930	10	21°894	16°590	32004	15	11°186	19°064	32078	23	6°280	22°619	32152	12	8°638	25°906
31931	20	21°948	16°015	32005	14	11°559	19°944	32079	14	6°934	22°191	32153	8	9°713	25°659
31932	8	23°130	16°341	32006	9	11°723	19°979	32080	12	7°727	22°963	32154	17	10°117	25°572
31933	10	23°417	16°090	32007	14	11°744	19°008	32081*	50	8°279	22°925	32155	15	10°914	25°874
31934	9	24°075	16°382	32008	12	12°088	19°031	32082	7	8°782	22°438	32156	15	12°031	25°768
31935	10	24°540	16°871	32009	9	12°162	19°535	32083	21	11°235	22°687	32157*	35	16°338	25°727
31936*	24	0°426	17°362	32010	5	13°657	19°690	32084	22	11°384	22°693	32158	21	16°830	25°942
31937	16	0°857	17°457	32011	8	17°197	19°071	32085	10	13°808	22°629	32159	33	17°495	25°168
31938	13	1°294	17°645	32012	10	18°228	19°710	32086	19	13°827	22°202	32160	15	18°497	25°647
31939	9	4°206	17°282	32013	13	18°254	19°392	32087*	64	14°032	22°537	32161	11	19°188	25°810
31940	13	4°660	17°797	32014	6	18°554	19°623	32088	23	16°601	22°197	32162	19	19°474	25°830
31941	10	6°907	17°658	32015	9	18°700	19°022	32089	24	18°807	22°244	32163	14	21°462	25°609
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31943	8	8°717	17°306	32017	13	20°257	19°120	32091	7	23°682	22°625	32165	13	22°772	25°235
31944	30	9°398	17°951	32018	7	20°571	19°412	32092	19	23°913	22°866				
31945	24	10°354	17°677	32019	32	21°150	19°096	32093	11	3°581	23°417				
31946	23	10°617	17°428	32020	16	21°337	19°711	32094	28	4°222	23°682				
31947	8	12°665	17°846	32021	23	22°615	19°759	32095	20	4°283	23°758				
31948	6	12°914	17°795	32022	12	23°406	19°091	32096	7	4°641	23°066				
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31951	14	14°282	17°090	32025	20	1°707	20°938	32099*	43	11°985	23°035				
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31954	7	15°534	17°603	32028	14	3°752	20°159	32102	12	12°521	23°017				
31955	12	16°378	17°022	32029	6	7°076	20°682	32103	5	12°746	23°731				

R. A. 8^h 12^m

Plate 2424; 1905 Mar. 9.

Provisional Constants.

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 -00054 +00788 -2954

D E F
 -00774 -00043 +2074

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No.	d	x	y
32201	13	7°463	0°628
32202	25	8°657	0°803
32203	21	8°963	0°282
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32207	14	13°266	0°150
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32210	18	17°954	0°453
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32214	19	22°465	0°953
32215	17	24°277	0°075
32216	22	3°313	1°855
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32219	14	7°156	1°171
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32226	11	16°428	1°344
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32233	19	6°551	2°657
32234	21	9°060	2°952
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32239	11	17°314	2°531
32240*	43	18°402	2°554
32241	11	20°624	2°722
32242	12	21°433	2°833
32243	29	24°874	2°407
32244*	40	0°537	3°743
32245	27	0°750	3°760
32246	28	1°972	3°610
32247	12	5°210	3°770
32248	13	7°284	3°285
32249	12	12°576	3°942
32250	10	15°217	3°151
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32252	10	16°456	3°942
32253	18	17°934	3°000
32254	12	18°833	3°128
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32256	17	20°979	3°203

32257	12	22°622	3°065	32331	9	8°876	8°805	32405*	38	21°609	13°798	32479	14	23°970	19°804	32553	12	17°213	24°922
32258	14	23°264	3°513	32332	11	10°007	8°579	32406	15	22°847	13°497	32480	33	0°736	20°780	32554	13	20°329	24°984
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32261	15	24°811	3°394	32335	22	19°110	8°276	32409	13	7°728	14°704	32483	19	3°240	20°387	32557	16	23°907	24°676
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32267	20	10°247	4°450	32341	10	10°129	9°784	32415	11	12°936	14°687	32489	11	18°702	20°209	32563	22	9°687	25°448
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32279	27	2°937	5°484	32353	12	8°914	10°653	32427	19	5°076	15°107	32501	18	8°464	21°971				
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32281	16	6°636	5°076	32355	15	14°332	10°864	32429	14	7°534	15°208	32503*	33	13°606	21°713				
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32285	10	18°660	5°655	32359	18	16°912	10°680	32433*	29	21°788	15°471	32507	19	22°831	21°525				
32286	11	19°290	5°532	32360	10	20°537	10°729	32434	16	22°253	15°659	32508	12	22°834	21°472				
32287*	70	19°822	5°119	32361	21	21°704	10°125	32435	19	0°194	16°402	32509	15	23°692	21°460				
32288	9	20°726	5°922	32362	18	22°403	10°819	32436	16	4°609	16°851	32510	13	23°839	21°184				
32289	19	21°243	5°950	32363	11	22°709	10°720	32437	11	5°304	16°304	32511	14	24°681	21°231				
32290	11	22°214	5°825	32364	19	25°478	10°026	32438	10	9°494	16°707	32512	11	24°696	21°640				
32291	20	23°325	5°360	32365	14	25°835	10°807	32439	12	9°691	16°683	32513	28	25°313	21°981				
32292*	40	23°732	5°160	32366	33	1°483	11°109	32440	20	10°516	16°235	32514	23	4°663	22°870				
32293	17	24°249	5°379	32367	29	2°334	11°795	32441	11	12°041	16°385	32515	12	12°156	22°571				
32294	14	3°476	6°618	32368	13	3°501	11°931	32442	21	13°250	16°188	32516*	35	12°247	22°118				
32295	15	5°815	6°273	32369	11	4°985	11°776	32443	10	13°760	16°249	32517	10	13°410	22°670				
32296	13	7°133	6°305	32370	15	9°024	11°077	32444	12	15°497	16°628	32518	10	13°771	22°939				
32297	11	7°271	6°314	32371	11	12°890	11°172	32445*	41	17°042	16°527	32519	11	14°509	22°248				
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32299*	48	16°027	6°924	32373	14	17°483	11°213	32447	14	19°869	16°097	32521	17	15°309	22°313				
32300	11	17°942	6°410	32374	14	17°577	11°818	32448	13	22°677	16°133	32522	18	16°857	22°230				
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32306	10	22°953	6°729	32380	11	2°400	12°271	32454	16	25°665	17°474	32528	12	25°808	22°370				
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32313	17	9°401	7°462	32387*	34	10°912	12°950	32461*	24	7°060	18°320	32535	14	10°019	23°355				
32314	23	9°714	7°862	32388	13	11°798	12°182	32462	13	7°609	18°414	32536	17	10°960	23°481				
32315	10	10°000	7°587	32389	13	13°518	12°507	32463	16	9°727	18°143	32537	16	13°361	23°170				
32316	12	11°099	7°178	32390	12	18°464	12°225	32464	10	12°568	18°655	32538	8	17°006	23°110				
32317	9	12°310	7°573	32391	20	19°638	12°957	32465	12	14°906	18°994	32539	20	19°257	23°556				
32318*	21	16°957	7°930	32392	11	23°879	12°619	32466	11	15°359	18°485	32540	11	22°402	23°337				
32319*	20	17°034	7°753	32393*	48	0°910	13°336	32467	11	22°933	18°631	32541	17	22°674	23°916				
32320	15	18°529	7°638	32394*	40	3°944	13°651	32468	13	0°987	19°344	32542	15	25°000	23°141				
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32323	10	24°105	7°244	32397*	33	8°211	13°166	32471	12	7°403	19°036	32545	24	0°647	24°267				
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32635	14	23°522	1°604	32709	9	25°915	5°328	32783	13	1°105	10°829	32857	15	7°271	15°399	32931	10	19°224	19°938
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32652	9	2°268	3°671	32726	17	16°190	6°146	32800	9	22°523	10°322	32874*	22	16°417	16°382	32948	9	20°025	20°272
32653	13	3°144	3°486	32727	13	16°498	6°837	32801	7	23°113	10°904	32875	13	16°975	16°561	32949	6	21°074	20°545
32654	27	4°456	3°205	32728*	80	20°282	6°832	32802	10	23°897	10°196	32876*	30	18°055	16°736	32950	13	21°598	20°916
32655	12	4°865	3°104	32729	12	20°872	6°865	32803	8	24°246	10°174	32877	11	20°794	16°035	32951	13	23°094	20°258
32656	10	7°499	3°973	32730	9	24°528	6°158	32804	15	0°983	11°221	32878	7	24°058	16°537	32952	12	24°864	20°666
32657	6	7°646	3°751	32731	9	24°633	6°296	32805	13	3°808	11°766	32879	9	25°589	16°888	32953	9	0°451	21°005
32658	10	9°432	3°614	32732	6	25°693	6°055	32806	8	9°297	11°127	32880	6	3°554	17°929	32954	20	1°317	21°637
32659	8	11°334	3°732	32733	30	1°274	7°742	32807	12	10°239	11°580	32881	12	4°116	17°539	32955	10	1°322	21°585
32660	7	13°009	3°388	32734	7	2°471	7°344	32808*	82	14°916	11°459	32882	22	6°263	17°874	32956	15	2°177	21°564
32661	9	14°748	3°587	32735	13	2°787	7°193	32809	23	15°669	11°776	32883	11	6°505	17°602	32957	9	2°325	21°286
32662	24	14°808	3°115	32736	10	5°678	7°142	32810	14	19°628	11°113	32884*	29	6°584	17°984	32958	8	3°166	21°327
32663	14	16°014	3°279	32737	14	7°804	7°034	32811*	49	19°924	11°571	32885	15	6°623	17°157	32959	10	3°186	21°733
32664	7	16°641	3°196	32738	9	8°056	7°375	32812	16	21°435	11°653	32886	11	7°998	17°155	32960	9	5°006	21°994
32665	11	18°346	3°049	32739	6	9°323	7°893	32813	9	21°868	11°905	32887	8	8°439	17°171	32961	12	7°478	21°357
32666	27	20°276	3°193	32740	13	9°584	7°014	32814	17	23°382	11°272	32888	7	9°836	17°189	32962	7	7°846	21°013
32667	18	22°524	3°272	32741	11	10°526	7°963	32815	14	23°753	11°044	32889	6	11°525	17°143	32963	16	8°307	21°774
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32687	13	22°041	4°789	32761	12	12°416	8°208	32835	6	3°181	13°899	32909	15	18°735	18°382	32983	25	14°893	22°592
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32694	12	5°538	5°241	32768	22	6°859	9°778	32842	6	19°848	13°367	32916	18	2°034	19°234	32990	19	24°931	22°755
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32696	13	8°109	5°723	32770*	38	11°197	9°201	32844	13	22°914	13°496	32918	13	8°070	19°880	32992	13	3°498	23°231

33004	16	19°243	23°036	33116	12	14°906	1°476	33190	28	25°496	8°327	33264	16	15°545	14°205	33338	5	16°388	20°965
33005	20	22°815	23°466	33117	5	18°125	1°294	33191	13	1°630	9°053	33265	20	19°499	14°612	33339	8	17°560	20°764
33006	21	22°867	23°084	33118	16	20°571	1°715	33192	5	4°348	9°234	33266	9	20°655	14°255	33340*	32	21°614	20°061
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33019	11	16°450	24°284	33131	6	14°412	3°895	33205	9	6°264	10°946	33279*	32	6°106	16°596	33353	9	20°139	21°586
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				33157	6	14°706	6°905	33231	8	25°986	11°196	33305	20	4°359	18°649	33379	10	1°083	23°204
				33158	30	18°032	6°617	33232	6	1°450	12°994	33306	20	4°386	18°616	33380	8	4°155	23°165
				33159	6	18°045	6°634	33233	20	1°845	12°371	33307	6	5°029	18°260	33381	6	6°697	23°569
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				33163	30	23°214	6°283	33237	5	12°089	12°764	33311	19	13°435	18°716	33385	20	10°014	23°504
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				33165	29	1°566	7°248	33239	26	17°565	12°075	33313	6	18°755	18°705	33387	5	17°539	23°680
				33166	5	4°276	7°546	33240	20	18°694	12°777	33314	20	24°621	18°022	33388	14	18°236	23°764
				33167	25	4°333	7°484	33241	6	19°551	12°441	33315	9	25°515	18°336	33389	14	19°635	23°317
				33168	20	6°264	7°485	33242	8	24°624	12°725	33316	6	1°299	19°995	33390	24	20°785	23°815
				33169	8	6°376	7°975	33243	16	25°715	12°663	33317	8	4°776	19°854	33391	12	23°635	23°571
				33170	6	7°487	7°451	33244	16	0°124	13°107	33318	14	5°026	19°933	33392	7	2°634	24°523
				33171	12	9°869	7°260	33245	6	0°991	13°234	33319	10	7°504	19°698	33393	5	5°793	24°406
				33172	12	11°155	7°567	33246*	29	2°069	13°704	33320	19	7°510	19°695	33394	10	6°512	24°502
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				33175	5	25°646	7°496	33249	10	7°666	13°193	33323	5	14°792	19°311	33397	5	12°078	24°101
				33176*	54	1°127	8°984	33250	24	11°155	13°746	33324	20	19°232	19°343	33398	6	15°255	24°200
				33177	6	1°286	8°978	33251	15	11°576	13°765	33325	21	19°705	19°906	33399	9	15°993	24°728
				33178	11	3°627	8°024	33252	6	15°690	13°468	33326	12	24°548	19°702	33400	16	16°443	24°036
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				33181	12	8°430	8°673	33255	6	19°534	13°107	33329	12	7°830	20°925	33403*	60	5°534	25°716
				33182	13														

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33853	19	20°057	24°107	33941	12	5°272	4°075	34015	8	3°477	11°534	34089	8	20°578	16°945	34163	10	25°885	21°301
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33855	15	25°055	24°005	33943	6	8°795	4°217	34017	7	7°510	11°485	34091	5	22°345	16°624	34165	9	1°568	22°549
33856	8	25°226	24°940	33944	13	9°238	4°186	34018	10	8°255	11°034	34092	6	0°437	17°685	34166*	30	4°460	22°940
33857	12	6°760	25°041	33945	28	10°635	4°685	34019	15	8°274	11°505	34093	8	3°144	17°668	34167	16	7°097	22°602
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33860	9	11°092	25°589	33948	6	18°595	4°624	34022	7	9°126	11°679	34096	9	6°066	17°405	34170	15	9°785	22°62
33861	17	17°440	25°826	33949	8	19°224	4°824	34023	11	16°244	11°396	34097	7	6°764	17°304	34171	5	11°104	22°436
33862	9	20°543	25°669	33950*	26	19°235	4°937	34024	6	20°126	11°852	34098	8	6°887	17°006	34172	6	11°115	22°012
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				33952	10	21°286	4°942	34026	10	2°925	12°606	34100	6	15°596	17°663	34174	20	17°580	22°928
				33953	16	21°335	4°896	34027	10	4°525	12°302	34101	28	16°223	17°578	34175	8	17°598	22°949
				33954	10	24°515	4°687	34028	5	4°803	12°924	34102	12	17°096	17°153	34176	12	18°440	22°272
				33955	9	24°644	4°917	34029	5	8°599	12°685	34103	13	19°725	17°245	34177	26	20°016	22°340
				33956	5	25°673	4°199	34030	7	9°442	12°527	34104*	28	21°445	17°944	34178	19	20°145	22°689
				33957	5	0°826	5°672	34031	5	12°215	12°884	34105	19	21°993	17°611	34179	5	20°184	22°564
				33958	6	3°054	5°940	34032	10	12°436	12°816	34106	8	24°234	17°055	34180	10	24°088	22°563
				33959*	30	6°781	5°536	34033*	35	13°754	12°226	34107	6	24°632	17°465	34181	11	24°605	22°975
				33960	8	8°354	5°344	34034	7	14°196	12°008	34108	10	25°692	17°069	34182	8	0°595	23°891
				33961	8	9°582	5°706	34035	7	15°327	12°908	34109	6	1°737	18°686	34183	5	2°679	23°557
				33962	6	11°526	5°195	34036	12	20°351	12°095	34110	7	1°954	18°027	34184	7	2°705	23°554
				33963	5	15°126	5°266	34037	12	23°235	12°522	34111	6	5°560	18°841	34185	10	3°897	23°631
				33964	8	19°893	5°935	34038	12	3°886	13°324	34112	14	6°894	18°306	34186	7	6°556	23°729
				33965	28	21°045	5°765	34039	7	3°954	13°149	34113	6	7°865	18°984	34187*	32	7°257	23°683
				33966	14	0°061	6°385	34040	9	4°652	13°739	34114	11	8°714	18°676	34188*	28	7°515	23°617
				33967	8	8°995	6°986	34041	8	9°993	13°655	34115	5	8°725	18°178	34189	9	10°915	23°663
				33968*	44	9°240	6°798	34042	12	13°478	13°946	34116	34	9°127	18°154	34190	14	12°679	23°225
				33969	10	10°486	6°866	34043	14	15°311	13°297	34117	6	11°366	18°927	34191	7	13°539	23°632
				33970	14	10°843	6°917	34044	9	19°212	13°635	34118	10	11°384	18°868	34192	6	15°699	23°110
				33971	7	13°897	6°433	34045	9	23°399	13°865	34119	11	13°124	18°828	34193	6	16°672	23°940
				33972	7	14°776	6°004	34046	15	23°884	13°539	34120	9	13°826	18°022	34194	13	17°102	23°265
				33973*	30	17°144	6°134	34047	13	0°309	14°981	34121	6	13°957	18°245	34195	12	18°816	23°949
				33974*	34	23°865	6°411	34048	14	1°003	14°242	34122	10	14°427	18°037	34196	5	19°346	23°945
				33975	21	25°115	6°100	34049	5	1°134	14°211	34123	5	15°535	18°775	34197	14	20°616	23°641
				33976	11	2°018	7°783	34050*	29	1°492	14°647	34124	7	16°264	18°093	34198	12	23°125	23°236
				33977	10	4°524	7°016	34051	7	1°595	14°716	34125	18	4°042	19°056	34199	10	3°086	24°007
				33978	6	5°572	7°134	34052	18	2°085	14°152	34126	16	4°535	19°438	34200	9	4°682	24°077
				33979	10	5°935	7°965	34053	10	2°231	14°341	34127	7	4°646	19°195	34201	5	5°385	24°605
				33980	5	5°986	7°836	34054	12	2°837	14°507	34128	6	4°656	19°334	34202	8	9°107	24°006
				33981	6	9°634	7°316	34055	10	4°396	14°595	34129	6	4°775	19°759	34203	7	9°802	24°915
				33982	15	10°396	7°410	34056	10	5°717	14°464	34130	7	8°497	19°466	34204	9	10°532	24°270
				33983	12	11°394	7°874	34057	23	6°080	14°845	34131	24	10°925	19°269	34205	6	13°981	24°732
				33984	9	13°534	7°747	34058	12	11°789	14°060	34132	21	11°534	19°055	34206	18	16°374	24°945
				33985	6	13°964	7°645	34059	9	14°876	14°955	34133	9	14°090	19°013	34207	28	19°203	24°575
				33986	17	17°441	7°134	34060	22	16°476	14°995	34134	10	14°399	19°900	34208	14	19°735	24°084
				33987	8	18°035	7°165	34061	8	20°727	14°928	34135	5	18°798	19°328	34209	5	20°796	24°821
				33988	6	18°382	7°506	34062	16	22°627	14°076	34136*	39	19°085	19°179	34210	25	6°397	25°847
				33989	18	22°064	7°614	34063	10	25°246	14°615	34137	6	20°398	19°174	34211	10	9°606	25°166
				33990	5	25°762	7°945	34064	8	0°074	15°923	34138	6	20°564	19°077	34212	5	11°921	25°372
				33991	28	25°886	7°939	34065	6	5°646	15°827	34139	7	2°589	20°708	34213	7	12°623	25°852
				33992	12	3°344	8°366	34066	6	5°970	15°349	34140	12	8°558	20°104	34214	40	18°399	25°999
				33993	9	8°085	8°187	34067*	18	8°282	15°626	34141	5	8°585	20°476	34215	45	18°504	25°901
				33994	24	13°168	8°410	34068*	5	9°195	15°804	34142	22	10°265	20°273	34216	14	21°485	25°112
				33995	14	14°846	8°947	34069*	14	9°267	15°517	34143	9	12°667	20°615	34217	10	23°882	25°025
				33996*	43	18°997	8°980	34070	9	10°646	15°240	34144*	34	17°575	20°085	34218	5	25°513	25°422
				33997	7	0°332	9°227	34071	8	11°164	15°095	34145	5	19°745	20°268				
				33998	20	1°206	9°436	34072	5	11°371	15°491	34146	30	20°125	20°716				
				33999	7	4°329	9°235	34073	12	11°756	15°275	34147	10	21°552	20°446				
				34000	7	10°015	9°928	34074	21	14°636	15°386	34148	5	24°080	20°023				
				34001	10	13°102	9°166	34075	26	15°897	15°322	34149*	50	2°419	21°516				
				34002	14	14°160	9°255	34076	5	23°594	15°305	34150*	31	2°631	21°087				
				34003	7	17°015	9°819	34077	5	25°216	15°994	34151	6	9°045	21°967				
				34004	18	19°564	9°285	34078	13	25°698	15°977	34152	7	9°319	21°964				
				34005	10	22°395	9°956	34079	14	25°948	15°425	34153	6	10°273	21°555				
				34006	20	9°538	10°683	34080	23	5°128	16°381	34154	16	10°437	21°481				
				34007	18	10°435	10°957	34081	15	6°206	16°866	34155	6	11°382	21°392				
				34008	5	13°278	10°031	34082	14	9°174	16°106	34156	11	11°634	21°924				
				34009	14	18°520	10°860	34083	6	9°470	16°748	34157	7	11°883	21°666				
				34010	7	18°874	10°939	34084	10	9°767	16°515	34158	7	14°637	21°320				
				34011	14	19°439	10°823	34085	8	14°144	16°256	34159	22	16°683	21°308				
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R. A. 8^h 52^m

Plate 2443; 1905 Mar. 31.

Provisional Constants.

A	B	C
-00047	+00097	-1430

D	E	F
-00155	-00020	+1713

Mag. = 16·1 - 1·25 \sqrt{d}

No.	d	x	y
34301	9	2·354	0·048
34302	24	2·389	0·834
34303	14	7·676	0·086
34304	22	8·214	0·032
34305	12	13·150	0·372
34306	13	13·433	0·894
34307	22	14·108	0·976
34308	26	14·201	0·420
34309	11	17·023	0·618
34310	10	17·319	0·358
34311	8	17·397	0·669
34312	13	18·611	0·853
34313	22	0·970	1·734
34314	22	1·269	1·994
34315	9	10·607	1·404
34316	7	10·943	1·068
34317	7	11·476	1·897
34318	12	13·386	1·649
34319	12	15·149	1·827
34320	6	18·647	1·761
34321*	33	20·200	1·541
34322	17	23·166	1·407
34323	13	4·174	2·874
34324	10	4·267	2·908
34325	10	6·021	2·236
34326	11	8·906	2·301
34327	7	10·026	2·396
34328	19	10·170	2·501
34329	15	11·034	2·345
34330	12	13·141	2·495
34331	13	13·374	2·878
34332	9	14·488	2·897
34333	9	15·943	2·185
34334	17	19·734	2·468
34335	24	20·075	2·502
34336	6	24·119	2·353
34337	14	4·656	3·588
34338	23	5·875	3·162
34339	19	6·596	3·162
34340	24	8·423	3·127
34341	15	11·014	3·711
34342	7	11·172	3·424
34343	13	14·242	3·222
34344	7	14·334	3·619
34345	8	15·581	3·328
34346	7	15·662	3·076
34347*	34	21·030	3·255
34348	13	22·226	3·827
34349	13	22·364	3·443
34350	10	3·921	4·619
34351	26	6·290	4·386
34352	14	6·851	4·029
34353	9	7·353	4·889
34354	11	11·390	4·701
34355	9	14·225	4·679
34356	10	14·336	4·724

34357	12	14·434	4·500	34431	16	6·549	11·556	34505	8	4·705	18·886	34579	8	8·375	24·166
34358	11	16·903	4·276	34432	20	7·335	11·471	34506*	31	4·722	18·195	34580	10	10·663	24·180
34359	8	19·955	4·472	34433	8	8·172	11·807	34507	10	6·322	18·632	34581	7	12·995	24·301
34360	21	24·137	4·150	34434*	63	8·373	11·144	34508	6	7·317	18·835	34582	11	13·466	24·155
34361	13	2·769	5·122	34435*	36	12·719	11·713	34509*	26	7·361	18·557	34583	14	16·234	24·696
34362	14	2·904	5·350	34436	14	13·149	11·525	34510	9	7·754	18·114	34584*	30	17·663	24·220
34363	5	2·982	5·754	34437	14	15·418	11·108	34511	11	9·553	18·773	34585	18	22·775	24·642
34364*	35	8·963	5·140	34438	9	16·571	11·109	34512	16	11·555	18·272	34586	8	25·903	24·235
34365	11	14·052	5·609	34439	12	19·644	11·980	34513	14	16·872	18·075	34587	14	2·328	25·464
34366*	54	15·365	5·389	34440*	35	19·874	11·791	34514	9	17·460	18·918	34588	10	3·957	25·843
34367	6	17·074	5·824	34441	23	20·833	11·261	34515	7	20·203	18·469	34589	7	8·414	25·292
34368	17	18·738	5·990	34442	14	20·942	11·113	34516	22	21·660	18·390	34590	21	19·145	25·230

34638	14	22°783	5°935	34712	10	10°468	15°689	34786	21	11°418	25°406	34844	5	19°854	7°468	34918*	23	7°550	18°642
34639	14	0°734	6°753	34713	10	12°214	15°935	34787	12	16°742	25°944	34845	6	22°268	7°154	34919	6	8°486	18°227
34640	8	8°256	6°958	34714	22	13°596	15°004	34788*	55	18°466	25°375	34846	7	22°889	7°795	34920	5	8°680	18°419
34641	10	10°290	6°443	34715	6	15°933	15°397	34789	12	18°898	25°223	34847	6	5°410	8°317	34921	6	12°553	18°968
34642	9	19°926	6°024	34716*	24	17°054	15°415	34790	14	21°682	25°450	34848	5	12°177	8°280	34922	13	12°722	18°526
34643	12	22°190	6°541	34717*	26	18°051	15°614	34791	12	22°915	25°854	34849*	21	12°919	8°835	34923	5	13°148	18°948
34644	12	25°592	6°521	34718	15	19°694	15°957					34850	6	14°108	8°133	34924	22	16°394	18°055
34645*	16	3°855	7°501	34719	12	6°563	16°098					34851	6	15°189	8°792	34925	8	21°672	18°024
34646	6	4°404	7°567	34720	5	7°960	16°789					34852	5	22°307	8°561	34926	8	22°250	18°401
34647	7	7°244	7°430	34721	7	14°364	16°757					34853	6	24°487	8°125	34927	10	4°417	19°623
34648	6	8°955	7°366	34722	18	15°590	16°995					34854	6	6°626	9°506	34928	8	12°671	19°005
34649	10	12°371	7°573	34723	17	17°044	16°046					34855	8	10°117	9°904	34929	5	13°148	19°183
34650	15	17°843	7°727	34724	13	17°321	16°552					34856	12	10°133	9°904	34930	9	13°993	19°424
34651	6	17°851	7°973	34725	24	20°477	16°136					34857*	35	12°055	9°325	34931	6	18°115	19°726
34652	11	22°415	7°776	34726	10	20°802	16°028					34858	6	13°850	9°200	34932	8	2°067	20°804
34653	7	0°566	8°155	34727	14	25°513	16°425					34859*	22	15°292	9°163	34933	5	2°127	20°360
34654	14	17°022	8°232	34728	18	5°860	17°942					34860	7	1°010	10°011	34934	20	7°906	20°679
34655	10	18°154	8°375	34729	9	11°751	17°317					34861	5	5°666	10°363	34935	13	8°475	20°054
34656	5	21°729	8°205	34730	24	14°710	17°673					34862	7	11°248	10°620	34936	6	9°244	20°291
34657	25	6°617	9°286	34731	7	18°043	17°601					34863	6	11°639	10°991	34937	7	10°621	20°330
34658	11	7°311	9°638	34732	8	25°989	17°096					34864	20	0°076	11°425	34938*	32	12°444	20°863
34659	11	16°645	9°063	34733	16	0°051	18°522					34865	6	1°705	11°628	34939	6	14°292	20°144
34660	18	21°832	9°743	34734	19	5°725	18°443					34866	6	7°324	11°917	34940	13	19°302	20°515
34661	9	24°213	9°459	34735	11	7°547	18°714					34867	14	12°496	11°535	34941	6	21°022	20°395
34662	19	1°555	10°634	34736*	27	7°871	18°399					34868	6	13°672	11°356	34942*	20	25°460	20°393
34663	8	6°652	10°394	34737	13	9°666	18°379					34869	12	19°766	11°843	34943	8	3°266	21°874
34664	14	9°987	10°725	34738*	27	12°192	18°156					34870	11	23°762	11°810	34944	5	8°752	21°565
34665	13	11°815	10°594	34739	11	13°798	18°484					34871	5	0°784	12°945	34945	6	13°535	21°675
34666	20	12°048	10°656	34740	9	16°636	18°763					34872	18	4°941	12°993	34946	10	13°634	21°300
34667*	28	15°271	10°537	34741	12	16°863	18°196					34873	6	7°512	12°638	34947*	30	13°662	21°312
34668	6	15°326	10°488	34742	8	20°745	18°626					34874	15	16°220	12°750	34948	19	24°467	21°202
34669	22	16°759	10°396	34743	6	22°241	18°544					34875*	24	18°354	12°108	34949	6	1°710	22°638
34670	13	22°891	10°049	34744*	29	0°175	19°185					34876	6	20°125	12°464	34950	7	3°773	22°989
34671	16	1°045	11°466	34745	27	6°107	19°619					34877	10	21°849	12°864	34951*	32	6°105	22°846
34672	8	3°377	11°854	34746	7	7°059	19°361					34878	14	23°510	12°455	34952*	23	6°736	22°866
34673*	77	4°396	11°372	34747	6	7°082	19°294					34879	10	1°589	13°155	34953	12	8°169	22°721
34674	7	8°142	11°963	34748	8	11°380	19°619					34880	6	4°442	13°033	34954	5	9°138	22°434
34675	12	8°646	11°013	34749	20	11°807	19°943					34881	5	8°025	13°975	34955	5	9°670	22°903
34676	9	9°247	11°974	34750	10	14°615	19°386					34882	5	16°573	13°042	34956	11	14°295	22°955
34677	16	9°296	11°400	34751	10	15°016	19°358					34883	6	20°193	13°909	34957	18	15°226	22°314
34678	12	13°398	11°043	34752	18	15°539	19°460					34884*	28	20°779	13°498	34958	13	18°332	22°155
34679	13	16°827	11°109	34753	13	7°216	20°396					34885	6	21°397	13°431	34959	10	19°752	22°194
34680	20	18°200	11°821	34754	23	9°580	20°933					34886	6	23°626	13°896	34960	12	20°721	22°635
34681	7	20°612	11°571	34755	20	13°366	20°711					34887	10	0°158	14°496	34961	5	5°635	23°027
34682	27	21°945	11°456	34756	26	15°658	20°182					34888	5	2°452	14°272	34962*	30	11°720	23°084
34683	13	23°574	11°675	34757	14	19°737	20°896					34889	6	9°206	14°797	34963*	30	12°227	23°005
34684	12	1°073	12°693	34758	10	19°783	20°983					34890	8	10°302	14°604	34964	7	4°242	24°044
34685	24	6°707	12°096	34759	10	21°042	20°424					34891	20	13°815	14°270	34965	20	5°921	24°139
34686	13	7°013	12°036	34760	8	23°917	20°406					34892	8	14°794	14°425	34966	12	13°815	24°505
34687	8	8°871	12°938	34761	18	10°945	21°845					34893	8	18°759	14°985	34967	5	14°379	24°716
34688	9	9°675	12°166	34762	17	11°560	21°542					34894	17	19°174	14°827	34968*	26	14°946	24°614
34689	10	19°275	12°690	34763	7	13°277	21°322					34895	6	21°025	14°908	34969	11	20°373	24°425
34690	9	21°084	12°843	34764	5	15°675	21°601					34896	6	23°437	14°631	34970	5	1°165	25°823
34691	7	5°211	13°225	34765	14	25°046	21°929					34897	11	5°071	15°770	34971	6	4°036	25°959
34692	13	5°514	13°856	34766	15	2°037	22°894					34898	12	5°191	15°315	34972	9	4°995	25°935
34693	10	8°005	13°486	34767*	30	9°054	22°357					34899	5	8°449	15°098	34973	7	10°779	25°456
34694*	39	10°196	13°160	34768	14	9°613	22°678					34900	13	9°122	15°248	34974	14	12°702	25°898
34695	17	11°715	13°787	34769	10	11°444	22°196					34901	5	10°094	15°565	34975	12	23°146	25°271
34696	15	13°399	13°162	34770*	29	12°074	22°817					34902	7	10°237	15°417				
34697	16	14°855	13°365	34771	12	12°387	22°542					34903	8	15°588	15°440				
34698*	22	14°864	13°926	34772	9	17°905	22°478					34904	14	20°971	15°149				
34699	23	17°360	13°540	34773	14	17°944	22°077					34905	8	21°419	15°769				
34700	15	23°444	13°197	34774	11	23°484	22°683					34906	6	24°386	15°695				
34701	14	0°864	14°807	34775*	27	2°548	23°297					34907	8	3°686	16°366				
34702	11	3°026	14°317	34776	19	5°373	23°577					34908	6	4°165	17°033				
34703*	29	6°285	14°484	34777*	31	6°077	23°405					34909	5	6°148	17°651				
34704	14	7°855	14°402	34778	7	8°959	23°549					34910	8	6°965	17°145				
34705	7	10°838	14°756	34779	10	25°540	23°047					34911	10	7°019	17°398				
34706	13	13°472	14°927	34780	10	1°318	24°744					34912	10	8°484	17°314				
34707	22	17°805	14°706	34781	14	14°504	24°233					34913	6	8°941	17°371				
34708	16	22°004	14°529	34782	10	14°616	24°294					34914	5	10°266	17°314				
34709																			

R. A. 9^h 16^m

Plate 2426; 1905 Mar. 9.

Provisional Constants.

A	B	C
-00057	+00315	-1424

D	E	F
-00334	-00057	+1931

Mag. = 15.9 - 1.25 \sqrt{d}

No.	d	x	y
35001	11	1.560	0.187
35002	27	8.427	0.600
35003	10	13.074	0.234
35004	23	16.456	0.647
35005	17	17.291	0.196
35006	28	18.321	0.644
35007	10	4.874	1.333
35008	8	5.363	1.422
35009	14	11.017	1.921
35010	12	14.834	1.932
35011	27	16.111	1.000
35012	13	17.988	1.930
35013	7	18.525	1.490
35014*	47	19.859	1.241
35015	18	21.787	1.638
35016	17	22.034	1.385
35017*	62	0.681	2.114
35018	7	5.204	2.773
35019	9	5.964	2.944
35020	14	10.170	2.813
35021	11	11.597	2.140
35022	13	12.486	2.326
35023	15	21.603	2.877
35024	7	24.809	2.051
35025	7	4.106	3.786
35026	23	5.430	3.151
35027	14	5.631	3.303
35028	12	9.399	3.564
35029	13	9.414	3.244
35030	19	11.174	3.153
35031	16	12.836	3.832
35032	11	13.013	3.106
35033	13	15.467	3.572
35034	12	15.996	3.135
35035	14	19.845	3.057
35036	15	20.597	3.743
35037	7	20.656	3.784
35038	19	24.597	3.956
35039	13	1.231	4.218
35040	14	8.196	4.596
35041	8	11.009	4.667
35042	19	11.994	4.338
35043	8	14.783	4.396
35044	11	14.903	4.382
35045	27	23.705	4.196
35046	14	24.347	4.895
35047	22	25.340	4.292
35048	13	4.012	5.814
35049	16	6.565	5.538
35050	15	6.922	5.053
35051	13	6.936	5.345
35052	14	8.383	5.857
35053	6	16.442	5.066
35054	8	17.287	5.664
35055	18	19.463	5.975
35056	13	19.985	5.278

35057	11	5.421	6.570	35131	16	19.162	13.733	35205*	32	3.947	20.745
35058	9	10.883	6.193	35132	14	22.454	13.174	35206	27	4.494	20.946
35059	12	11.268	6.892	35133	9	23.706	13.104	35207	12	6.617	20.268
35060	8	11.582	6.830	35134	16	25.112	13.302	35208*	47	6.676	20.427
35061	14	17.379	6.793	35135	14	2.033	14.273	35209	18	8.457	20.204
35062	20	18.230	6.797	35136	11	4.244	14.047	35210	13	8.874	20.635
35063	16	18.867	6.604	35137	12	9.655	14.746	35211	14	10.108	20.916
35064	14	22.084	6.296	35138	9	16.942	14.565	35212*	56	11.197	20.236
35065	14	24.278	6.018	35139	8	20.259	14.656	35213	7	12.988	20.271
35066	23	24.952	6.814	35140	11	20.492	14.442	35214	12	14.616	20.282
35067	8	24.955	6.214	35141	14	22.019	14.629	35215	11	15.149	20.557
35068	12	0.581	7.548	35142	11	1.850	15.013	35216	9	16.166	20.917
35069	8	2.632	7.882	35143	13	5.015	15.997	35217*	60	17.637	20.454
35070	11	4.199	7.063	35144	9	7.960	15.246	35218	26	20.128	20.378
35071	8	5.945	7.669	35145	14	13.750	15.200	35219*	44	21.574	20.997
35072	19	7.703	7.067	35146	13	15.578	15.358	35220*	25	22.372	20.504
35073	8	12.694	7.488	35147*	28	16.503	15.427	35221	16	24.184	20.764
35074	9	18.051	7.016	35148	14	16.944	15.767	35222	30	2.967	21.565
35075	27	21.714	7.350	35149	16	19.275	15.409	35223	13	5.421	21.587
35076	11	0.642	8.956	35150*	40	22.268	15.117	35224	26	7.009	21.738
35077	16	1.218	8.184	35151	13	24.510	15.566	35225	16	7.128	21.764
35078	13	2.816	8.492	35152	7	25.384	15.884	35226	8	11.418	21.917
35079	11	10.647	8.916	35153	14	2.814	16.060	35227	14	13.992	21.616
35080	14	11.134	8.209	35154	17	6.326	16.039	35228	8	14.387	21.293
35081	9	14.746	8.879	35155	26	8.323	16.504	35229	10	15.728	21.250
35082	27	15.412	8.725	35156	17	10.707	16.362	35230	10	18.126	21.323
35083	27	15.459	8.670	35157	14	11.744	16.213	35231	8	18.747	21.124
35084	26	17.474	8.615	35158	16	14.487	16.896	35232	13	19.882	21.862
35085	24	19.841	8.728	35159	17	14.843	16.378	35233	8	21.428	21.183
35086	10	21.457	8.262	35160	19	15.777	16.566	35234	9	23.115	21.079
35087	11	22.483	8.361	35161	12	17.116	16.476	35235	7	4.493	22.804
35088	12	22.904	8.884	35162	10	20.716	16.255	35236	18	5.951	22.686
35089	13	25.970	8.813	35163	19	25.670	16.823	35237	13	8.976	22.845
35090*	36	6.974	9.322	35164	7	1.157	17.484	35238	10	9.973	22.415
35091	11	10.956	9.828	35165	12	4.223	17.269	35239*	36	11.961	22.543
35092	29	11.807	9.464	35166	9	6.040	17.756	35240	12	14.077	22.604
35093	22	11.398	9.104	35167	8	7.306	17.736	35241	8	14.573	22.780
35094	14	23.481	9.988	35168	10	9.890	17.777	35242	7	18.981	22.818
35095	9	1.129	10.609	35169	6	12.742	17.646	35243	21	20.073	22.015
35096	10	3.185	10.938	35170	13	15.171	17.396	35244	9	21.045	22.776
35097	12	7.262	10.527	35171	12	19.066	17.491	35245	21	21.110	22.345
35098	27	11.543	10.249	35172	17	19.148	17.481	35246	9	22.503	22.687
35099	23	12.914	10.313	35173	14	20.267	17.046	35247	11	22.966	22.548
35100	11	15.381	10.774	35174	17	20.716	17.614	35248	9	22.985	22.434
35101	10	15.484	10.935	35175	8	24.784	17.464	35249	10	25.007	22.657
35102*	39	17.775	10.088	35176	13	24.808	17.460	35250	12	6.743	23.146
35103	14	21.372	10.267	35177	15	0.129	18.421	35251	8	7.057	23.058
35104*	32	6.210	11.074	35178	16	0.714	18.794	35252	30	8.946	23.916
35105	11	7.094	11.711	35179	14	0.977	18.114	35253	27	9.453	23.267
35106*	49	7.528	11.254	35180	9	1.775	18.235	35254	12	10.631	23.796
35107	22	10.504	11.666	35181	8	1.826	18.775	35255	14	12.176	23.887
35108	19	19.545	11.123	35182	8	3.398	18.577	35256	10	14.563	23.914
35109*	49	19.602	11.752	35183	10	4.859	18.416	35257	7	17.617	23.134
35110	9	20.278	11.535	35184	10	16.036	18.904	35258	12	22.154	23.997
35111	21	21.047	11.624	35185	9	16.268	18.847	35259	30	24.946	23.584
35112	12	24.874	11.804	35186	12	16.756	18.373	35260	8	11.495	24.385
35113	10	25.372	11.505	35187	12	17.518	18.662	35261	15	14.116	24.856
35114	13	25.453	11.273	35188	6	21.637	18.805	35262	12	15.114	24.027
35115	24	1.896	12.834	35189	6	23.756	18.306	35263	17	16.604	24.593
35116	21	2.139	12.185	35190	14	24.105	18.847	35264	9	18.351	24.147
35117	15	5.172	12.492	35191	9	25.249	18.203	35265	12	19.299	24.006
35118	9	12.735	12.706	35192	10	0.202	19.390	35266	12	19.684	24.315
35119	7	19.873	12.453	35193	28	4.906	19.262	35267	17	25.493	24.486
35120	8	20.721	12.793	35194	21	6.064	19.536	35268	23	1.696	25.654
35121*	30	22.841	12.308	35195	11	7.417	19.853	35269	18	6.738	25.285
35122	19	0.241	13.263	35196	19	9.918	19.151	35270	21	7.692	25.545
35123	23	6.114	13.482	35197	9	11.436	19.812	35271	10	14.549	25.594
35124	14	6.155	13.419	35198	11	16.113	19.849	35272	11	14.713	25.326
35125	22	8.361	13.271	35199	10	21.459	19.516	35273	10	14.836	25.553
35126	14	12.332	13.992	35200	12	22.104	19.451	35274	11	16.653	25.637
35127	26	14.674	13.554	35201*	33	23.091	19.826	35275	10	17.445	25.788
35128	31	15.307	13.007	35202	21	23.624	19.977	35276	10	20.931	25.608
35129	22	16.255	13.419	35203	9	23.976	19.651	35277	11	22.094	25.878
35130	11	19.091	13.762	35204	10	25.758	19.909	35278	10	23.355	25.944

35279*	50	24.736	25.248
35280	10	24.955	25.315

R. A. 9^h 24^m

Plate 1537; 1900 Apr. 20.

Provisional Constants.

A	B	C
-00050	+00504	-5764

D	E	F
-00543	+00004	-3825

Mag. = 15.4 - 1.25

35350	23	2°697	6°297	35424	10	25°536	13°980	35498	10	17°503	20°826	35657	12	20°622	6°421
35351	12	11°758	6°896	35425*	50	0°150	14°647	35499	21	20°869	20°809	35658	12	22°798	6°654
35352	20	12°994	6°121	35426	10	10°005	14°358	35500	8	24°220	20°354	35659	8	23°364	6°066
35353	22	14°685	6°832	35427	21	10°609	14°460	35501	22	25°319	20°232	35660	11	24°791	6°526
35354	10	15°818	6°672	35428	12	12°979	14°749	35502	19	4°593	21°147	35661	12	5°945	7°903
35355	9	0°251	7°884	35429	10	13°056	14°713	35503	17	4°761	21°730	35662	12	10°286	7°374
35356	10	5°620	7°486	35430	11	16°105	14°408	35504	11	8°087	21°162	35663	8	11°985	7°615
35357	8	7°829	7°530	35431	10	16°820	14°631	35505	20	11°124	21°413	35664	17	12°306	7°046
35358	12	11°422	7°700	35432	10	21°169	14°630	35506	10	15°000	21°170	35665*	44	13°519	7°309
35359	15	12°850	7°088	35433	10	21°638	14°058	35507	25	15°245	21°450	35666	13	15°037	7°475
35360	14	15°691	7°199	35434	20	24°129	14°830	35508	10	15°459	21°357	35667	11	20°954	7°275
35361	6	16°680	7°947	35435	12	2°400	15°052	35509	10	16°858	21°674	35668*	33	21°064	7°776
35362	9	18°649	7°932	35436	10	3°279	15°361	35510*	22	19°490	21°080	35669	12	23°224	7°583
35363	11	20°261	7°823	35437	11	9°897	15°300	35511	12	19°958	21°192	35670	22	0°557	8°326
35364	10	20°424	7°581	35438	10	10°650	15°911	35512	20	25°709	21°054	35671	7	0°918	8°108
35365	21	21°920	7°609	35439	12	15°969	15°167	35513	12	0°972	22°069	35672	13	1°631	8°428
35366	9	22°281	7°399	35440*	31	17°814	15°500	35514	11	3°020	22°137	35673	13	2°439	8°736
35367	11	22°992	7°727	35441	9	17°964	15°139	35515	10	9°421	22°166	35674	24	3°121	8°442
35368	22	24°480	7°762	35442	9	21°749	15°510	35516	10	10°148	22°510	35675	9	4°478	8°546
35369	11	0°680	8°400	35443	12	23°097	15°371	35517	11	10°750	22°964	35676	11	7°238	8°396
35370	10	3°750	8°281	35444	10	23°521	15°971	35518	17	14°310	22°500	35677	15	7°677	8°173
35371	13	9°087	8°340	35445	15	24°718	15°568	35519	10	15°328	22°605	35678	12	8°016	8°686
35372	19	20°279	8°035	35446	11	2°730	16°943	35520	9	18°750	22°078	35679	20	12°479	8°539
35373	10	20°600	8°270	35447	19	3°581	16°292	35521	12	20°111	22°350	35680	9	14°082	8°702
35374	11	21°443	8°940	35448	8	4°499	16°147	35522*	22	20°909	22°347	35681	17	14°743	8°253
35375	6	22°321	8°940	35449	10	5°291	16°162	35523	36	23°340	22°524	35682	16	18°349	8°425
35376	10	23°795	8°049	35450	9	9°347	16°078	35524	12	0°180	23°528	35683	11	0°103	9°664
35377	31	24°078	8°379	35451	10	9°570	16°270	35525	32	2°971	23°069	35684*	31	2°318	9°711
35378	11	25°390	8°376	35452	10	10°710	16°557	35526	22	3°540	23°964	35685	33	2°729	9°065
35379	11	1°277	9°494	35453	11	12°963	16°925	35527	10	10°070	23°267	35686	14	4°039	9°044
35380	22	11°918	9°961	35454*	30	15°596	16°282	35528	9	11°630	23°640	35687	25	15°933	9°685
35381	11	12°087	9°421	35455	10	17°035	16°750	35529	11	15°449	23°450	35688	23	17°111	9°026
35382	10	13°472	9°308	35456	11	19°914	16°993	35530	9	17°148	23°045	35689	11	17°889	9°755
35383	7	19°268	9°410	35457	10	21°624	16°351	35531	10	18°922	23°152	35690	9	23°606	9°614
35384	10	19°378	9°590	35458*	38	23°930	16°335	35532*	21	18°980	23°000	35691	9	24°596	9°962
35385*	28	23°661	9°019	35459	12	24°508	16°454	35533	12	19°341	23°726	35692*	25	25°695	9°130
35386	10	3°193	10°981	35460	11	3°181	17°681	35534*	23	19°380	23°730	35693	12	4°013	10°784
35387	10	3°270	10°749	35461	10	3°950	17°447	35535*	22	19°845	23°530	35694	30	10°165	10°135
35388	11	13°353	10°740	35462	8	4°960	17°184	35536*	32	21°000	23°115	35695*	36	16°214	10°709
35389	10	16°697	10°750	35463	10	9°934	17°652	35537	23	25°066	23°320	35696	6	16°569	10°522
35390*	30	17°250	10°787	35464	10	11°093	17°860	35538	20	25°109	23°311	35697	14	25°236	10°168
35391	10	19°728	10°481	35465	9	16°730	17°910	35539	10	25°525	23°253	35698	13	25°870	10°876
35392	9	21°940	10°873	35466*	33	18°195	17°370	35540*	51	2°787	24°740	35699	10	0°630	11°592
35393	10	25°332	10°117	35467	10	18°465	17°794	35541	10	8°556	24°098	35700	6	6°986	11°395
35394*	34	0°678	11°827	35468	10	18°991	17°685	35542	10	9°709	24°852	35701	8	10°554	11°235
35395	10	2°700	11°289	35469	12	2°047	18°344	35543	8	12°279	24°452	35702	10	11°029	11°280
35396	19	4°864	11°001	35470	9	5°769	18°808	35544	10	13°171	24°741	35703	14	12°068	11°148
35397	20	8°525	11°712	35471	10	6°480	18°837	35545	12	13°520	24°252	35704*	42	12°549	11°269
35398	10	23°788	11°810	35472	8	8°312	18°923	35546	10	15°050	24°921	35705	15	14°297	11°377
35399	16	0°302	12°697	35473	10	8°773	18°699	35547	10	15°574	24°701	35706	24	16°581	11°736
35400	8	1°558	12°608	35474	11	9°871	18°802	35548	9	15°878	24°061	35707	10	18°629	11°186
35401	12	2°962	12°780	35475	10	9°892	18°107	35549	12	17°208	24°089	35708	24	22°716	11°033
35402	10	8°224	12°679	35476	10	11°259	18°026	35550	11	5°323	25°028	35709	11	25°777	11°575
35403	10	8°408	12°485	35477	21	11°730	18°782	35551	28	6°900	25°780	35710	11	2°493	12°499
35404	10	8°460	12°266	35478*	39	16°131	18°376	35552	10	9°415	25°251	35711	13	2°677	12°894
35405	11	9°722	12°969	35479	10	21°091	18°102	35553	12	19°846	25°042	35712	12	3°296	12°810
35406	9	13°723	12°365	35480*	40	1°050	19°341					35713	22	6°423	12°667
35407	8	15°021	12°401	35481	22	1°585	19°483					35714	6	7°271	12°445
35408	12	21°920	12°760	35482	8	1°934	19°150					35715	33	14°187	12°356
35409	11	23°971	12°209	35483	10	3°720	19°379					35716	25	17°434	12°721
35410	12	24°221	12°510	35484	9	4°549	19°773					35717	10	17°442	12°903
35411	11	24°585	12°135	35485	12	8°312	19°646					35718	11	21°956	12°499
35412	10	6°432	13°430	35486	9	12°311	19°853					35719	9	23°318	12°061
35413	10	8°470	13°191	35487*	24	14°120	19°142					35720	30	25°342	12°576
35414	12	10°634	13°300	35488*	23	17°089	19°268					35721	15	0°640	13°477
35415	11	12°330	13°466	35489	10	17°856	19°316					35722	16	2°943	13°194
35416	8	12°821	13°373	35490	10	21°756	19°616					35723	6	4°144	13°106
35417*	35	13°411	13°965	35491*	28	0°341	20°029					35724	21	7°523	13°315
35418	11	14°420	13°885	35492	18	2°156	20°261					35725	15	16°709	13°868
35419	16	16°450	13°024	35493*	30	7°170	20°767					35726	10	19°871	13°833
35420	10	16°511	13°039	35494*	20	10°560	20°331					35727	12	20°125	13°196
35421	10	18°930	13°744	35495	23	12°015	20°990					35728	13	25°976	13°127
35422	10	20°440	13°835	35496	10	14°856	20°949					35729	29	0°025	14°701
35423	28	21°287	13°972	35497	14	15°450	20°657					35730	12	0°378	14°782

R. A. 9^h 32^m

Plate 2427; 1905 Mar. 9.

Provisional Constants.

A B C
 -00022 +00680 -1465
 D E F
 -00673 -00028 +2044

Mag. = 16.5 - 1.25 \sqrt{d}

No.	d	x	y	
35601	15	1°856	0°431	35675
35602	60	2°652	0°015	35676
35603	9	3°074	0°923	35677
35604	17	5°508	0°982	35678
35605	14	9°336	0°743	35679
35606	22	13°685	0°534	35680
35607	15	15°227	0°819	35681
35608	10	17°025	0°669	35682
35609	12	2°145	1°024	35683
35610	20	6°840	1°697	35684*

35731	13	4°276	14°638	35805*	35	12°124	22°817	35919	17	18°582	2°484	35993	15	22°883	12°015	36067	5	23°571	21°733
35732	12	6°403	14°590	35806*	37	14°663	22°895	35920	24	20°314	2°365	35994	21	5°752	13°140	36068	13	23°586	21°717
35733	13	9°286	14°559	35807	15	16°948	22°735	35921	6	25°091	2°060	35995*	41	7°030	13°477	36069	5	7°303	22°279
35734	7	9°509	14°590	35808*	54	16°969	22°904	35922*	31	6°950	3°607	35996*	31	7°113	13°256	36070*	37	9°179	22°471
35735*	72	13°256	14°549	35809	19	19°165	22°403	35923	5	7°354	3°086	35997	6	9°661	13°455	36071	13	13°430	22°260
35736	18	20°155	14°876	35810	15	19°786	22°862	35924*	120	13°853	3°540	35998	19	15°813	13°368	36072	7	13°551	22°067
35737	8	24°592	14°154	35811	26	2°217	23°216	35925	5	19°170	3°160	35999*	16	17°974	13°462	36073	14	21°618	22°739
35738	21	2°882	15°511	35812	14	3°956	23°985	35926	5	0°690	4°939	36000	9	18°017	13°733	36074*	19	24°171	22°742
35739	8	16°597	15°206	35813	11	3°997	23°974	35927	16	2°074	4°317	36001	9	19°644	13°342	36075	16	4°272	23°166
35740	7	23°656	15°464	35814	9	4°416	23°912	35928*	24	2°522	4°778	36002	13	21°511	13°484	36076	11	4°398	23°944
35741	8	0°515	16°227	35815	17	8°236	23°340	35929	12	8°367	4°865	36003	8	23°849	13°054	36077	22	4°444	23°037
35742	10	1°860	16°066	35816	12	8°902	23°914	35930	11	11°214	4°231	36004*	61	25°570	13°100	36078	10	13°055	23°311
35743	15	2°295	16°662	35817	18	10°205	23°529	35931	13	11°540	4°064	36005	12	11°156	14°316	36079	15	18°512	23°691
35744	15	3°484	16°242	35818	11	11°576	23°975	35932	9	12°681	4°643	36006	14	11°761	14°280	36080	7	18°828	23°242
35745	10	5°699	16°909	35819	10	13°485	23°555	35933	15	23°955	4°004	36007	13	13°218	14°322	36081	5	22°178	23°930
35746	11	7°354	16°886	35820	20	17°491	23°681	35934	14	8°064	5°523	36008	11	15°836	14°981	36082*	34	24°849	23°265
35747	7	12°609	16°708	35821	9	24°503	23°500	35935	6	10°664	5°156	36009	25	20°135	14°007	36083	11	4°389	24°911
35748	11	12°896	16°034	35822	20	25°526	23°513	35936	8	12°921	5°971	36010	17	20°455	14°300	36084	8	6°073	24°002
35749	24	14°886	16°530	35823	24	25°699	23°888	35937	17	13°421	5°667	36011	11	20°529	14°120	36085	18	14°218	24°611
35750	9	15°866	16°965	35824	8	5°487	24°854	35938	23	14°099	5°300	36012*	25	23°996	14°765	36086	19	16°669	24°852
35751	14	16°221	16°546	35825	23	8°808	24°860	35939*	28	15°369	5°586	36013	6	2°313	15°842	36087	11	19°674	24°641
35752	11	17°214	16°470	35826	24	12°286	24°902	35940	15	16°734	5°745	36014	13	8°695	15°338	36088*	16	24°153	24°068
35753	14	20°511	16°319	35827	16	18°336	24°719	35941	5	18°694	5°119	36015	10	13°946	15°158	36089	7	24°937	24°780
35754	16	20°890	16°579	35828	14	18°499	24°917	35942	17	22°086	5°975	36016	5	15°113	15°729	36090	6	25°770	24°390
35755	13	21°841	16°622	35829	14	25°647	24°295	35943	16	23°067	5°570	36017	13	22°636	15°038	36091*	52	4°226	25°281
35756	13	23°620	16°177	35830	21	6°992	25°747	35944	7	4°843	6°718	36018	26	24°954	15°692	36092	17	10°005	25°993
35757	8	24°435	16°812	35831	8	10°717	25°237	35945	24	8°152	6°993	36019	7	25°972	15°313	36093	8	10°590	25°203
35758*	34	2°709	17°019	35832	15	15°376	25°363	35946	22	9°807	6°906	36020	8	5°390	16°807	36094	6	12°414	25°370
35759	12	3°289	17°132	35833	8	21°583	25°585	35947	21	11°803	6°934	36021	6	5°876	16°597	36095	15	14°340	25°488
35760	9	5°313	17°115	35834	9	22°362	25°405	35948	27	11°981	6°060	36022	5	11°199	16°548	36096	11	17°775	25°890
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35762	15	8°674	17°250	35836*	52	25°464	25°629	35950	18	17°556	6°432	36024	11	19°141	16°527	36098*	24	23°963	25°571
35763	17	8°926	17°054	35837	14	25°636	25°260	35951	24	20°488	6°371	36025	13	4°336	17°860	36099	23	24°349	25°631
35764	23	14°571	17°243					35952	12	22°594	6°099	36026	8	5°826	17°683				
35765	23	18°658	17°587					35953	6	13°956	7°971	36027	16	9°118	17°074				
35766	26	5°716	18°796					35954	13	15°745	7°949	36028	5	9°839	17°522				
35767	16	7°108	18°837					35955	10	22°882	7°796	36029	5	13°138	17°290				
35768	13	15°016	18°435					35956*	23	4°336	8°783	36030	13	19°556	17°896				
35769	11	16°247	18°419					35957	13	4°790	8°202	36031	16	21°058	17°774				
35770*	36	20°204	18°774					35958	16	9°899	8°441	36032	15	24°932	17°495				
35771	6	23°381	18°613					35959	8	11°956	8°165	36033	10	3°674	18°369				
35772	11	24°066	18°320					35960*	21	15°701	8°923	36034	24	6°921	18°291				
35773	14	24°965	18°714					35961	16	20°480	8°284	36035	12	7°627	18°141				
35774	14	25°628	18°209					35962	24	21°699	8°744	36036	6	11°500	18°767				
35775	6	4°445	19°959					35963	8	3°885	9°824	36037	28	13°500	18°334				
35776	15	5°124	19°265					35964	9	5°764	9°551	36038	8	15°622	18°815				
35777	19	12°688	19°114					35965*	20	6°742	9°296	36039	7	15°984	18°122				
35778	11	14°606	19°469					35966	11	11°488	9°185	36040	17	20°980	18°422				
35779	8	16°485	19°039					35967	17	12°130	9°274	36041	14	23°883	18°680				
35780	14	16°632	19°551					35968	11	14°317	9°160	36042	6	24°822	18°849				
35781	12	20°396	19°063					35969	13	25°569	9°247	36043	6	3°429	19°390				
35782	10	21°579	19°870					35970	14	25°908	9°324	36044	17	3°636	19°980				
35783	9	22°702	19°835					35971	21	1°375	10°722	36045	10	8°259	19°783				
35784	12	24°712	19°733					35972	10	4°525	10°528	36046	15	14°472	19°385				
35785	10	0°588	20°334					35973	19	8°289	10°994	36047	8	15°333	19°362				
35786	16	4°159	20°894					35974	13	15°932	10°029	36048	5	19°888	19°051				
35787	10	9°506	20°306					35975	9	18°954	10°260	36049	7	22°017	19°493				
35788	14	10°332	20°219					35976	7	4°438	11°224	36050	23	0°209	20°284				
35789	8	11°595	20°301					35977	5	16°263	11°219	36051	18	4°928	20°848				
35790	9	11°915	20°158					35978	16	19°533	11°380	36052	27	6°872	20°420				
35791*	30	14°228	20°549					35979	23	21°751	11°261	36053	14	8°204	20°844				
35792	14	16°963	20°499					35980	10	21°814	11°249	36054	11	9°156	20°578				
35793	12	18°034	20°732					35981*	31	22°926	11°658	36055	13	15°118	20°281				
35794	25	21°485	20°600					35982	14	23°237	11°247	36056	8	17°822	20°006				
35795	6	22°584	20°418					35983*	33	23°738	11°153	36057*	25	20°947	20°409				
35796	19	24°913	20°324					35984	15	24°350	11°978	36058*	24	21°044	20°903				
35797	15	4°564	21°712					35985	29	4°007	12°230	36059*	34	23°210	20°852				
35798	12	9°634	21°223					35986	11	4°646	12°775	36060	18	0°003	21°034				
35799	10	14°666	21°987					35987	6	7°521	12°036	36061	20	2°539	21°089				
35800	21	15°225	21°818					35988	16	8°295	12°879	36062*	27	8°908	21°804				
35801	8	16°799	21°401					35989	17	17°58									

36117	10	25°616	2°167	36191*	17	1°664	14°959	36357	18	12°334	7°059	36431	8	21°372	17°127
36118	8	7°653	3°255	36192	11	5°932	14°084	36358	25	13°911	7°352	36432	9	25°592	17°055
36119	7	19°824	3°350	36193*	44	16°616	14°179	36359	9	15°928	7°142	36433*	35	0°117	18°687
36120	16	20°590	3°654	36194*	25	19°971	14°357	36360	23	17°183	7°974	36434	15	1°492	18°124
36121	9	21°294	3°165	36195	16	2°644	15°865	36361	15	21°792	7°044	36435	14	2°048	18°216
36122*	20	24°455	3°924	36196	6	3°655	15°466	36362	9	22°807	7°781	36436	15	8°255	18°586
36123	8	1°384	4°205	36197*	16	7°196	15°025	36363	20	23°204	7°084	36437	17	9°926	18°267
36124*	29	5°326	4°835	36198	17	11°694	15°608	36364	8	4°642	8°531	36438	13	15°053	18°752
36125	8	14°683	4°650	36199	14	17°292	15°558	36365	13	8°296	8°540	36439	12	16°812	18°989
36126	8	16°923	4°620	36200*	26	20°066	15°195	36366	15	10°013	8°404	36440	16	22°437	18°660
36127	6	18°122	4°935	36201*	16	6°855	16°458	36367	11	17°976	8°003	36441	10	0°501	19°476
36128	9	19°469	4°356	36202*	14	9°245	16°995	36368	12	18°139	8°625	36442	17	0°515	19°265
36129	6	21°094	4°474	36203	7	18°916	16°166	36369	7	23°314	8°658	36443	15	1°843	19°714
36130	9	0°530	5°785	36204	8	21°724	16°624	36370	17	0°456	9°844	36444	21	2°031	19°264
36131	10	4°595	5°195	36205*	30	22°741	16°069	36371	7	4°743	9°228	36445	14	7°042	19°155
36132	7	5°511	5°357	36206	8	2°666	17°670	36372*	18	10°576	9°025	36446	13	8°864	19°836
36133	12	7°614	5°923	36207	14	12°796	17°555	36373	28	15°182	9°337	36447	13	11°847	19°425
36134	6	9°838	5°587	36208	6	17°945	17°777	36374	20	17°862	9°403	36448	15	12°574	19°656
36135	6	10°769	5°459	36209	7	22°836	17°695	36375	14	19°283	9°446	36449	13	12°893	19°334
36136	6	12°722	5°500	36210	6	23°395	17°795	36376	27	19°983	9°724	36450	14	13°646	19°251
36137	8	19°816	5°943	36211	6	1°634	18°883	36377	7	21°737	9°358	36451	12	14°606	19°757
36138	6	16°116	6°952	36212*	26	6°446	18°011	36378	19	23°434	9°215	36452	20	19°595	19°857
36139	15	16°854	6°881	36213	10	12°802	18°904	36379	11	0°546	10°683	36453	14	7°714	20°192
36140	6	19°625	6°216	36214	6	14°043	18°114	36380	22	1°035	10°996	36454	12	13°154	20°023
36141	5	19°855	6°515	36215	7	16°794	18°195	36381	15	6°056	10°975	36455	16	15°498	20°891
36142	6	22°076	6°700	36216*	28	21°456	18°236	36382	11	15°703	10°664	36456	13	17°537	20°214
36143*	32	22°166	6°727	36217	8	21°845	18°821	36383	11	18°926	10°066	36457	15	17°816	20°708
36144	7	9°020	7°667	36218	10	23°360	18°845	36384	11	21°631	10°210	36458	26	18°106	20°741
36145	8	11°375	7°413	36219*	14	6°175	19°826	36385	20	23°317	10°014	36459	13	18°572	20°004
36146	7	15°455	7°895	36220*	36	8°883	19°799	36386	7	0°957	11°515	36460	20	24°789	20°867
36147	5	22°744	7°055	36221	9	14°218	19°985	36387*	40	5°633	11°699	36461	22	1°836	21°265
36148	6	25°493	7°025	36222*	30	21°095	19°157	36388	17	16°154	11°563	36462	10	3°786	21°293
36149	14	6°725	8°252	36223	5	21°826	19°030	36389	10	17°316	11°816	36463	11	4°068	21°572
36150	9	6°735	8°335	36224	6	23°166	19°293	36390	12	18°499	11°385	36464	9	5°021	21°338
36151	10	7°285	8°667	36225	15	13°331	20°320	36391	6	20°025	11°415	36465	7	5°206	21°271
36152	6	7°656	8°774	36226	10	16°994	20°155	36392	14	6°818	12°287	36466	18	6°706	21°108
36153	9	13°839	8°451	36227	11	23°135	20°845	36393*	27	13°777	12°504	36467	7	7°458	21°242
36154	7	14°245	8°095	36228*	22	1°011	21°064	36394	10	15°765	12°690	36468	8	18°445	21°555
36155	6	3°115	9°407	36229	12	7°145	21°878	36395	25	23°374	12°885	36469	12	19°317	21°782
36156	7	3°455	9°479	36230	19	14°855	21°991	36396	10	1°879	13°664	36470*	31	20°130	21°556
36157	7	9°177	9°876	36231*	28	18°244	21°081	36397*	48	8°723	13°528	36471*	43	20°812	21°636
36158	9	15°155	9°305	36232*	10	2°015	22°935	36398	11	9°692	13°957	36472	14	22°614	21°622
36159	7	17°598	9°685	36233	8	17°537	22°262	36399	21	13°591	13°480	36473	17	25°173	21°612
36160	6	18°335	9°725	36234*	24	2°705	23°441	36400	8	17°462	13°529	36474	14	3°906	22°700
36161	6	20°018	9°805	36235	12	6°901	23°085	36401	11	17°506	13°228	36475	14	6°806	22°436
36162	8	21°937	9°399	36236	5	21°695	23°560	36402	12	20°438	13°921	36476	18	8°397	22°056
36163	17	4°638	10°324	36237*	7	2°025	24°266	36403	12	22°233	13°026	36477*	34	15°014	22°358
36164	12	5°827	10°368	36238	5	3°652	24°550	36404	17	22°461	13°329	36478	11	17°447	22°105
36165	10	6°238	10°179	36239	6	4°162	24°668	36405	9	23°550	13°648	36479	12	17°508	22°468
36166	10	6°637	10°463	36240	6	16°353	24°007	36406	11	24°236	13°578	36480	12	17°685	22°770
36167	16	6°706	10°319	36241	9	18°718	24°738	36407	15	24°642	13°052	36481	21	9°814	23°293
36168	10	11°254	10°723	36242	6	22°016	24°824	36408	7	25°956	13°937	36482	13	9°873	23°832
36169	7	18°086	10°245	36243	8	1°187	25°746	36409*	37	2°564	14°328	36483	18	11°803	23°513
36170	5	22°015	10°237	36244*	13	1°872	25°765	36410	14	7°918	14°461	36484	25	15°559	23°489
36171	11	22°500	10°559	36245	12	2°260	25°816	36411	11	9°855	14°713	36485	10	16°040	23°630
36172*	21	0°524	11°876	36246	8	6°684	25°811	36412	23	10°955	14°944	36486	25	19°574	23°165
36173	6	0°825	11°456					36413	10	17°695	14°548	36487	9	23°984	23°757
36174*	26	1°325	11°354					36414	15	19°533	14°333	36488*	33	6°914	24°826
36175	7	5°843	11°543					36415	10	0°845	15°896	36489	12	11°404	24°342
36176*	76	7°845	11°303					36416	11	6°893	15°356	36490	6	20°556	24°341
36177	12	8°125	11°585					36417	10	10°208	15°375	36491	8	13°632	25°233
36178	5	12°358	11°731					36418	8	19°607	15°369	36492	19	14°871	25°250
36179	8	14°041	11°419					36419	20	21°084	15°336	36493	8	16°859	25°667
36180	7	17°836	11°182					36420*	33	23°277	15°510	36494*	21	20°004	25°212
36181	7	0°489	12°234					36421	19	25°201	15°675	36495	14	21°387	25°220
36182	7	1°956	12°165					36422*	39	1°364	16°497				
36183	9	14°007	12°288					36423	13	3°463	16°640				
36184	7	19°337	12°900					36424	14	11°781	16°637				
36185*	49	3°204	13°256					36425	21	12°249	16°754				
36186	6	6°736	13°762					36426	30	19°988	16°438				
36187	10	9°483	13°155					36427*	33	23°415	16°744				
36188	12	12°644	13°674					36428	17	0°356	17°070				
36189	13	19°354	13°185					36429	17	10°793	17°283				
36190*	25	23°973	13°917					36430	10	20°207	17°998				

R. A. 9^h 56^m

Plate 2434; 1905 Mar. 27.

Provisional Constants.

A	B	C
-00036	+00794	-0622

D	E	F
-00780	-00065	+2075

Mag. = 16.0 - 1.25√d

No.	d	x	y
36301	14	3°180	0°870
36302	12	4°628	0°656
36303	21	21°044	0°784
36304	31	21°809	0°920
36305	23	4°863	1°259
36306	10	5°233	1°581
36307	22	8°740	1°729
36308*	39	10°310	1°556
36309	13	11°086	1°371
36310	13	12°306	1°455
36311	8	12°934	1°523
36312	8	14°561	1°162
36313	6	16°202	1°207
36314	8	17°885	1°647
36315	10	23°836	1°129
36316	24	0°568	2°507
36317	26	4°018	2°557
36318	23	10°192	2°784
36319	7	18°073	2°432
36320	17	18°194	2°072
36321	20	18°883	2°026
36322	27	19°747	2°591
36323	20	19°816	2°003
36324	23	21°781	2°441
36325	25	5°017	3°514
36326	15	8°225	3°193
36327	7	11°863	3°105
36328	10	18°684	3°815
36329	14	19°702	3°510
36330	20	24°231	3°913
36331*	35	2°886	4°326
36332	9	6°683	4°776
36333	15	13°246	4°914
36334	25	18°648	4°298
36335	14	22°090	4°926
36336	12	25°140	4°158
36337*	32	25°337	4°904
36338	30	12°305	5°135
36339*	29	13°038	5°062
36340	11	21°741	5°149
36341	25	23°104	5°110
36342	9	10°224	6°841
36343*	48	13°698	6°643
36344	16	14°495	6°676
36345	30	16°866	6°047
36346	23	17°873	6°833
36347	12	18°933	6°450
36348	10	19°017	6°043
36349	13	0°552	7°145
36350*	42	0°640	7°168
36351	10	1°222	7°488
36352	17	3°973	7°414
36353	13	4°269	7°337
36354	11	4°369	7°812
36355	30	8°371	7°417
36356*	22	12°157	7°051

R. A. 10^h 4^m

Plate 2817 ; 1910 Feb. 28.

Provisional Constants.

A	B	C
0023	-00725	+2808

D	E	F
+·00719	—·00054	—·2527

$$Mag. = 16.3 - 1.25 \sqrt{d}$$

No.	d	x	y	36574	20	0.194	6.791	36647	13	18.092	10.829	36721	21	13.456	15.677	36795	19	19.256	20.747
36501	10	0.216	0.665	36574	26	1.608	6.829	36648	16	20.897	10.824	36722	17	13.675	15.874	36796	10	23.797	20.686
36502	17	2.242	0.874	36575	10	2.775	6.662	36649	12	21.709	10.106	36723	10	13.728	15.621	36797	11	25.989	20.493
36503*	58	10.941	0.460	36576	11	5.576	6.774	36650	16	21.868	10.783	36724	14	17.503	15.013	36798	22	1.013	21.374
36504	17	19.492	0.036	36577	15	5.680	6.183	36651	21	21.913	10.388	36725	12	17.621	15.636	36799	21	3.573	21.361
36505	28	25.426	0.075	36578	11	5.904	6.455	36652	10	24.464	10.544	36726	9	21.018	15.762	36800	15	10.200	21.273
36506	16	25.625	0.300	36579	22	8.105	6.572	36653	12	25.437	10.307	36727	10	21.461	15.796	36801	9	12.748	21.314
36507*	39	6.611	1.926	36580	8	9.689	6.357	36654	10	5.081	11.138	36728	10	21.823	15.516	36802	16	13.139	21.052
36508	34	11.193	1.040	36581	8	11.323	6.845	36655	19	11.801	11.787	36729	11	22.388	15.475	36803*	28	13.190	21.257
36509	10	11.692	1.494	36582	10	11.630	6.554	36656	12	14.892	11.045	36730	11	23.417	15.075	36804	14	15.363	21.464
36510	18	12.009	1.354	36583	10	12.665	6.103	36657	10	15.725	11.707	36731*	36	1.814	16.493	36805	9	16.360	21.987
36511	29	12.192	1.181	36584	9	13.903	6.371	36658	12	21.059	11.184	36732	10	3.991	16.805	36806*	25	17.831	21.888
36512	14	14.464	1.436	36585	15	16.725	6.702	36659	18	22.990	11.957	36733	18	4.890	16.824	36807	10	23.692	21.372
36513	14	16.883	1.444	36586	23	16.892	6.724	36660	10	25.423	11.262	36734	11	5.712	16.259	36808	10	5.270	22.200
36514	11	18.676	1.725	36587	10	20.148	6.971	36661	14	25.616	11.789	36735	20	9.021	16.436	36809	21	5.505	22.987
36515	12	19.452	1.208	36588	23	23.813	6.956	36662	18	0.635	12.775	36736	11	12.043	16.743	36810	8	6.783	22.375
36516*	39	20.803	1.535	36589	10	1.210	7.528	36663	30	1.774	12.634	36737	18	12.095	16.678	36811	17	6.976	22.149
36517	23	20.932	1.652	36590	22	5.067	7.233	36664	19	3.042	12.801	36738	8	12.676	16.722	36812	5	9.033	22.220
36518	47	23.933	1.445	36591	14	5.144	7.404	36665	10	9.517	12.706	36739	12	12.747	16.489	36813*	27	9.804	22.562
36519	38	0.185	2.186	36592	12	7.655	7.308	36666	16	10.381	12.784	36740	12	12.893	16.660	36814	12	12.697	22.183
36520	11	4.428	2.772	36593	19	7.750	7.962	36667*	38	10.520	12.093	36741	10	14.853	16.143	36815	10	16.009	22.438
36521	19	10.143	2.302	36594	18	8.013	7.638	36668	17	10.911	12.327	36742	9	22.326	16.845	36816	20	22.753	22.055
36522	17	12.001	2.393	36595	10	8.439	7.759	36669	8	11.653	12.503	36743	23	25.107	16.893	36817	11	24.533	22.574
36523	26	13.842	2.911	36596	8	12.804	7.734	36670	20	15.682	12.392	36744	24	25.139	16.888	36818	18	2.379	23.509
36524	10	17.656	2.914	36597	11	19.316	7.571	36671*	30	15.814	12.313	36745	11	4.416	17.326	36819	6	3.617	23.044
36525	19	21.647	2.483	36598	13	19.767	7.968	36672	19	19.657	12.562	36746	17	5.546	17.399	36820	14	5.331	23.468
36526	11	22.624	2.457	36599	8	21.266	7.093	36673	23	22.353	12.516	36747	8	9.591	17.976	36821	14	5.653	23.454
36527	25	2.639	3.657	36600	20	22.021	7.343	36674	20	23.186	12.809	36748	9	11.150	17.135	36822	9	6.480	23.162
36528	19	3.545	3.906	36601	27	22.497	7.108	36675	23	0.862	13.077	36749	10	12.960	17.419	36823	20	6.927	23.026
36529	25	5.095	3.487	36602	10	23.323	7.897	36676	14	1.953	13.396	36750	15	14.871	17.185	36824	8	10.084	23.008
36530*	37	7.828	3.493	36603	5	23.584	7.672	36677	17	2.637	13.326	36751	17	16.177	17.537	36825	10	12.026	23.013
36531	30	8.777	3.364	36604	21	23.656	7.149	36678	11	4.357	13.688	36752	20	16.444	17.290	36826	8	12.620	23.146
36532	24	19.263	3.369	36605	14	24.322	7.243	36679*	23	5.619	13.931	36753	11	16.719	17.421	36827*	29	17.649	23.055
36533*	45	19.431	3.850	36606	24	25.542	7.031	36680	19	6.412	13.198	36754*	30	20.941	17.567	36828	15	18.163	23.284
36534	18	20.330	3.892	36607	10	1.716	8.406	36681	10	11.262	13.437	36755	11	21.739	17.305	36829	14	18.328	23.249
36535	14	22.232	3.551	36608	25	1.839	8.963	36682	15	11.372	13.827	36756	9	24.986	17.207	36830	19	24.441	23.769
36536	10	22.283	3.551	36609	20	6.100	8.248	36683*	39	12.480	13.274	36757	13	25.041	17.021	36831	19	0.817	24.792
36537	13	23.078	3.136	36610	17	7.682	8.206	36684	18	15.213	13.248	36758	22	0.837	18.412	36832	12	3.492	24.387
36538	22	0.493	4.669	36611	20	7.981	8.707	36685*	32	15.780	13.359	36759	6	2.193	18.824	36833	20	7.309	24.355
36539	34	1.507	4.858	36612	20	8.823	8.578	36686	13	16.328	13.238	36760	12	5.456	18.804	36834	14	9.850	24.026
36540*	40	3.743	4.654	36613	11	9.704	8.350	36687	9	16.642	13.789	36761	21	5.567	18.985	36835*	43	11.609	24.925
36541	26	4.746	4.716	36614	17	12.815	8.683	36688	19	16.811	13.128	36762	5	6.914	18.356	36836	20	12.472	24.193
36542	12	5.054	4.618	36615*	40	18.964	8.216	36689	19	17.157	13.516	36763	10	10.399	18.207	36837	10	13.989	24.236
36543	10	7.166	4.442	36616	11	19.022	8.336	36690	14	17.300	13.718	36764	8	12.188	18.095	36838	18	14.610	24.382
36544	33	7.565	4.914	36617	19	19.161	8.471	36691	12	20.848	13.685	36765	23	12.324	18.805	36839	17	15.242	24.649
36545	16	8.586	4.833	36618	9	19.225	8.687	36692	5	24.088	13.317	36766*	22	12.730	18.217	36840	11	16.905	24.250
36546	11	9.507	4.674	36619	10	19.623	8.994	36693	22	24.781	13.966	36767	7	18.482	18.438	36841	14	17.031	24.242
36547	10	9.810	4.652	36620	30	20.566	8.805	36694	25	24.900	13.049	36768	8	19.303	18.331	36842	9	18.120	24.732
36548	11	10.786	4.747	36621	18	23.046	8.213	36695	13	4.393	14.478	36769	11	23.058	18.509	36843	11	20.334	24.727
36549	18	13.264	4.191	36622	6	23.505	8.033	36696	14	5.860	14.914	36770	6	23.246	18.790	36844	10	25.111	24.336
36550	20	14.384	4.447	36623	11	24.324	8.238	36697	8	6.321	14.044	36771	20	23.378	18.723	36845	16	3.360	25.475
36551	12	15.189	4.735	36624	12	24.667	8.433	36698	19	7.307	14.770	36772	19	25.817	18.552	36846*	30	4.918	25.436
36552	10	16.179	4.815	36625	31	25.117	8.502	36699	18	12.688	14.779	36773	7	2.548	19.295	36847	7	14.635	25.583
36553	10	21.311	4.155	36626	20	0.033	9.957	36700	16	14.446	14.746	36774	14	5.669	19.446	36848	12	16.723	25.425
36554	41	25.562	4.706	36627	24	1.718	9.763	36701	17	14.868	14.501	36775	19	5.707	19.623				
36555	17	5.233	5.587	36628	20	6.173	9.800	36702	15	15.101	14.580	36776	19	8.161	19.572				
36556	10	6.045	5.075	36629	19	8.136	9.781	36703	7	15.674	14.884	36777	11	10.023	19.515				
				36630	10	8.372	9.087	36704	11	17.226	14.802	36778	9	10.133	19.897				

37253	18	13°735	25°261	37347	8	6°736	5°150	37421	6	23°510	13°417	37495	13	22°548	20°405	37614	14	1°558	1°559
37254	21	14°189	25°916	37348	8	8°106	5°768	37422	9	25°635	13°040	37496*	34	4°828	21°248	37615	21	2°629	1°973
37255	8	16°251	25°088	37349	18	8°762	5°579	37423	36	0°715	14°620	37497*	30	4°895	21°066	37616	16	4°668	1°872
37256	8	18°430	25°652	37350	10	10°878	5°771	37424	8	1°688	14°215	37498	14	4°905	21°630	37617	13	5°579	1°664
37257	10	22°546	25°839	37351	6	12°836	5°926	37425	8	3°915	14°175	37499	9	7°548	21°479	37618	28	11°524	1°399
				37352	8	13°592	5°815	37426	9	10°530	14°210	37500*	19	7°579	21°617	37619	9	12°947	1°789
				37353	8	15°558	5°115	37427*	40	11°359	14°081	37501	8	9°756	21°348	37620*	38	18°083	1°617
				37354	9	16°745	5°598	37428	10	14°310	14°389	37502	10	11°964	21°240	37621	12	18°530	1°749
				37355	20	16°929	5°877	37429	14	17°390	14°770	37503*	32	13°165	21°228	37622	16	22°643	1°722
				37356	10	18°474	5°255	37430	8	21°279	14°451	37504	9	15°673	21°590	37623	18	0°359	2°562
				37357	18	24°505	5°423	37431	6	21°470	14°068	37505*	15	15°770	21°765	37624	17	3°282	2°083
				37358	9	3°260	6°456	37432	9	22°630	14°787	37506	8	18°620	21°721	37625	7	4°203	2°006
				37359	8	6°685	6°563	37433	12	24°510	14°689	37507	20	25°935	21°609	37626	14	6°228	2°731
				37360	6	8°901	6°119	37434	10	1°362	15°690	37508	8	25°975	21°611	37627	14	6°297	2°885
				37361	7	9°199	6°945	37435	20	8°626	15°421	37509	12	0°202	22°895	37628	16	12°414	2°862
				37362	8	9°892	6°306	37436	8	12°675	15°224	37510	30	1°262	22°290	37629	30	13°512	2°931
				37363	7	14°602	6°481	37437	19	14°036	15°859	37511	9	2°127	22°655	37630	29	14°563	2°083
				37364*	51	23°891	6°388	37438*	42	14°700	15°262	37512	8	7°540	22°461	37631	28	15°744	2°428
				37365	10	1°820	7°524	37439	8	15°696	15°930	37513	10	8°992	22°840	37632	14	15°753	2°807
				37366	8	6°957	7°150	37440	7	18°328	15°515	37514	10	15°790	22°848	37633	16	16°896	2°406
				37367	9	10°791	7°115	37441	8	19°214	15°838	37515	8	16°559	22°537	37634	21	17°594	2°883
				37368	8	13°131	7°148	37442	10	19°469	15°157	37516	8	18°346	22°791	37635	11	18°844	2°444
				37369	9	15°110	7°966	37443	9	23°411	15°338	37517	8	18°472	22°859	37636	24	21°176	2°843
				37370	12	15°520	7°705	37444	10	24°592	15°770	37518	10	10°320	23°160	37637	11	21°701	2°071
				37371	18	24°445	7°626	37445	9	25°646	15°929	37519	6	15°741	23°096	37638	14	22°900	2°155
				37372	9	0°630	8°916	37446	22	1°306	16°092	37520	10	17°460	23°121	37639	22	23°764	2°666
				37373	10	0°645	8°260	37447	9	1°567	16°825	37521	6	19°086	23°344	37640	22	0°948	3°450
				37374	8	3°861	8°833	37448*	34	4°955	16°030	37522*	26	4°217	24°683	37641	14	3°519	3°308
				37375	22	9°385	8°233	37449	9	6°553	16°022	37523	11	4°690	24°367	37642	10	5°617	3°280
				37376	10	11°081	8°323	37450	8	6°776	16°508	37524	6	13°849	24°652	37643	11	5°671	3°690
				37377	24	13°585	8°338	37451	8	11°871	16°664	37525	9	15°341	24°709	37644	8	14°724	3°145
				37378	10	14°317	8°801	37452	8	13°890	16°341	37526	10	21°100	24°939	37645	13	17°573	3°528
				37379	19	16°066	8°987	37453	10	14°190	16°965	37527*	48	8°102	25°507	37646	8	19°617	3°373
				37380	9	16°595	8°842	37454	8	19°783	16°909	37528*	12	12°149	25°404	37647	13	19°825	3°549
				37381	8	19°033	8°757	37455	9	2°744	17°145	37529	20	14°440	25°872	37648	17	20°421	3°328
				37382	9	19°246	8°542	37456	10	5°061	17°420	37530*	14	14°820	25°122	37649	23	22°946	3°268
				37383	10	19°352	8°673	37457	8	7°551	17°165	37531*	22	17°265	25°174	37650	33	24°413	3°340
				37384	9	24°291	8°351	37458	14	10°970	17°290	37532*	26	20°060	25°584	37651	6	24°832	3°604
				37385	13	1°275	9°700	37459	9	16°887	17°416					37652	8	4°141	4°474
				37386	8	2°624	9°070	37460	8	18°242	17°869					37653	10	6°220	4°850
				37387	8	2°835	9°925	37461*	30	20°280	17°392					37654	9	6°375	4°437
				37388	9	5°787	9°795	37462	9	25°226	17°045					37655	9	6°696	4°706
				37389*	27	22°697	9°906	37463	10	2°225	18°847					37656	8	7°277	4°404
				37390	8	22°726	9°440	37464*	26	6°624	18°786					37657	22	7°789	4°899
				37391	9	24°421	9°954	37465	14	8°267	18°430					37658	13	13°841	4°866
				37392	10	1°637	10°851	37466	9	9°052	18°309					37659	24	13°873	4°571
				37393	10	2°153	10°324	37467	9	14°435	18°350					37660	11	14°445	4°799
				37394	9	7°299	10°315	37468	7	14°902	18°630					37661	19	21°002	4°536
				37395	9	14°952	10°464	37469	8	16°259	18°695					37662*	40	0°930	5°022
				37396	11	24°363	10°546	37470*	40	16°565	18°059					37663	22	3°158	5°527
				37397	10	0°139	11°254	37471	7	22°555	18°046					37664	11	4°979	5°266
				37398	9	0°469	11°066	37472	11	1°860	19°165					37665	7	9°147	5°957
				37399	8	0°806	11°985	37473	10	2°063	19°650					37666	11	9°964	5°994
				37400*	29	1°462	11°679	37474*	30	4°424	19°983					37667	16	20°735	5°403
				37401	20	11°000	11°615	37475*	26	5°340	19°415					37668	6	21°153	5°739
				37402	8	21°369	11°676	37476	8	6°983	19°726					37669	13	21°884	5°553
				37403	10	25°678	11°334	37477	7	13°325	19°388					37670	7	22°356	5°644
				37404	8	25°748	11°002	37478	8	13°656	19°585					37671	16	24°507	5°953
				37405	10	3°177	12°135	37479	12	13°686	19°570					37672	8	25°974	5°269
				37406	19	3°680	12°494	37480*	28	15°364	19°456					37673*	54	2°541	6°493
				37407	8	7°591	12°456	37481	8	15°550	19°694					37674	11	4°100	6°478
				37408	9	8°385	12°921	37482	30	15°999	19°582					37675	10	4°657	6°360
				37409	9	8°994	12°951	37483*	24	16°495	19°743					37676	11	5°471	6°173
				37410	7	14°738	12°018	37484	12	3°899	20°748					37677*	41	7°026	6°903
				37411	8	21°427	12°279	37485	8	4°915	20°261					37678	6	7°353	6°406
				37412	13	23°162	12°288	37486	9	6°513	20°041					37679	17	18°182	6°131
				37413	6	24°025	12°925	37487*	17	7°960	20°853					37680	26	18°634	6°110
				37414	11	24°886	12°632	37488	9	9°898	20°665					37681	20	19°382	6°685
				37415	6	3°521	13°934	37489	8	10°085	20°241					37682	13	19°472	6°249
				37416	10	3°950	13°622	37490	10	13°360	20°540					37683	16	24°216	6°455
				37417*	44	4°865	13°835	37491	10	13°535	20°021					37684	14	25°587	6°919
				37418	8	7°346	13°619	37492	8	14°454	20°234					37685	7	25°982	6°193
				37419	16	8°769	13°345	37493	7	21°703	20°679					37686	23	3°091	7°731
				37420	8	13°746	13°735	37494	7	22°541	20°122					37687*	26	5°020	7°987

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37688	22	5°336	7°583	37762	7	5°297	12°577	37836	23	17°392	16°275	37910	18	5°974	21°374
37689*	47	8°434	7°911	37763	8	5°908	12°498	37837	19	18°191	16°754	37911	24	7°717	21°220
37690	9	10°254	7°794	37764	11	7°032	12°149	37838	12	18°295	16°491	37912	11	8°474	21°547
37691	8	10°512	7°541	37765*	30	9°366	12°727	37839	15	18°844	16°351	37913*	32	13°341	21°398
37692	10	14°654	7°597	37766*	63	9°840	12°239	37840	26	21°487	16°042	37914	13	13°687	21°074
37693	13	15°779	7°289	37767	20	10°287	12°421	37841	20	22°085	16°517	37915*	23	14°817	21°241
37694	26	18°701	7°668	37768	28	11°454	12°253	37842	12	23°640	16°304	37916	13	15°498	21°996
37695	21	19°327	7°539	37769	8	12°601	12°213	37843	5	23°933	16°253	37917	8	15°514	21°672
37696	8	24°106	7°597	37770	7	13°030	12°489	37844	20	24°480	16°538	37918	16	16°506	21°721
37697	24	24°151	7°172	37771	16	16°664	12°734	37845*	32	25°183	16°736	37919	7	17°372	21°725
37698	9	2°582	8°680	37772	27	16°697	12°603	37846	16	3°864	17°152	37920*	29	18°311	21°598
37699	13	2°937	8°456	37773	7	22°180	12°156	37847	13	8°333	17°063	37921	13	21°469	21°571
37700*	26	5°206	8°080	37774	12	22°338	12°598	37848	11	8°939	17°801	37922	6	22°622	21°143
37701	17	8°135	8°534	37775	19	23°126	12°280	37849	12	9°115	17°314	37923	12	23°803	21°918
37702	22	8°234	8°207	37776	17	25°866	12°669	37850	14	11°216	17°039	37924	22	24°921	21°629
37703	7	13°864	8°431	37777	12	2°149	13°520	37851	7	14°194	17°613	37925	6	2°079	22°447
37704	18	14°634	8°148	37778	13	2°668	13°027	37852	14	16°767	17°875	37926	18	10°140	22°962
37705	22	14°717	8°010	37779	6	3°429	13°292	37853	19	20°066	17°808	37927	9	11°302	22°838
37706	6	14°914	8°311	37780	17	4°278	13°147	37854	20	21°083	17°933	37928	16	16°281	22°349
37707	15	15°428	8°608	37781	5	6°341	13°026	37855	24	23°411	17°947	37929	17	18°435	22°180
37708	21	22°936	8°361	37782	6	13°196	13°147	37856	7	24°202	17°036	37930	14	19°496	22°493
37709	7	23°044	8°722	37783	13	13°485	13°104	37857	14	25°427	17°787	37931	5	19°775	22°278
37710	13	24°231	8°230	37784	8	14°697	13°903	37858	8	25°511	17°595	37932	14	24°186	22°220
37711	10	25°611	8°588	37785	27	16°540	13°740	37859	12	1°189	18°151	37933	8	7°264	23°131
37712	9	2°087	9°580	37786	16	18°796	13°827	37860	13	8°607	18°327	37934	6	8°090	23°934
37713	10	3°968	9°441	37787	14	19°932	13°031	37861	12	9°779	18°465	37935	19	8°958	23°276
37714	9	4°750	9°537	37788	11	23°693	13°133	37862	7	10°488	18°450	37936	10	11°771	23°092
37715	23	6°236	9°727	37789	6	0°111	14°168	37863	21	11°418	18°249	37937	10	16°407	23°709
37716	6	6°455	9°316	37790	13	1°269	14°890	37864	15	11°590	18°237	37938	14	18°874	23°757
37717	32	7°509	9°048	37791	7	2°990	14°686	37865	6	11°832	18°425	37939	9	19°525	23°319
37718	29	7°965	9°559	37792	22	3°148	14°795	37866	15	12°469	18°329	37940	8	19°682	23°956
37719	7	8°228	9°953	37793	9	3°600	14°967	37867	20	14°093	18°422	37941	6	19°762	23°743
37720	6	9°739	9°567	37794	7	4°374	14°563	37868	6	14°907	18°651	37942	7	22°959	23°627
37721	11	10°230	9°443	37795	6	6°453	14°140	37869	7	19°039	18°257	37943	8	24°898	23°811
37722*	22	12°690	9°062	37796	16	9°318	14°029	37870	21	19°283	18°078	37944	7	24°900	23°011
37723	19	16°127	9°186	37797	8	11°846	14°202	37871	8	19°467	18°329	37945	7	3°701	24°297
37724	10	16°571	9°618	37798	26	14°000	14°772	37872	11	19°894	18°367	37946	22	19°419	24°826
37725	12	16°963	9°924	37799	5	14°151	14°915	37873	16	20°848	18°123	37947	19	20°592	24°224
37726	10	18°569	9°771	37800	10	14°803	14°223	37874	12	21°230	18°934	37948	14	21°497	24°956
37727	15	20°384	9°804	37801	15	20°546	14°394	37875	21	21°963	18°051	37949	15	3°289	25°532
37728	18	21°678	9°723	37802	12	22°165	14°586	37876	13	23°469	18°315	37950	6	3°491	25°177
37729	13	21°812	9°473	37803	23	22°531	14°662	37877	12	23°548	18°579	37951	18	7°734	25°723
37730	16	21°829	9°581	37804	12	22°836	14°947	37878*	32	23°817	18°237	37952	12	11°022	25°794
37731	11	23°306	9°411	37805*	29	23°667	14°326	37879	6	5°905	19°053	37953	13	11°692	25°276
37732	18	25°622	9°870	37806*	35	23°687	14°112	37880	8	7°160	19°041	37954	20	13°274	25°819
37733*	33	1°344	10°008	37807	18	2°050	15°442	37881	13	7°675	19°946	37955	21	13°571	25°506
37734	19	3°006	10°651	37808	11	2°458	15°401	37882	26	10°037	19°772	37956	13	13°636	25°139
37735	14	3°067	10°057	37809	13	3°229	15°874	37883	11	15°613	19°578	37957*	34	16°402	25°812
37736	7	5°936	10°852	37810	6	4°817	15°460	37884*	32	16°961	19°636	37958	16	16°477	25°331
37737	23	7°580	10°921	37811	6	7°353	15°574	37885	6	18°300	19°182	37959	18	17°460	25°782
37738	11	8°611	10°640	37812	14	8°596	15°763	37886	8	20°522	19°428	37960	8	20°604	25°911
37739	11	10°504	10°520	37813	7	8°812	15°081	37887	22	24°423	19°965	37961	7	25°044	25°514
37740	18	10°896	10°488	37814*	46	8°889	15°596	37888*	39	25°496	19°086	37962*	42	25°185	25°011
37741	19	11°643	10°847	37815	11	13°930	15°869	37889	6	1°177	20°227				
37742	6	13°868	10°408	37816	10	16°051	15°543	37890	23	1°178	20°509				
37743	7	15°236	10°378	37817	7	17°629	15°771	37891	7	3°494	20°241				
37744	13	16°390	10°532	37818	14	19°902	15°717	37892	8	4°213	20°862				
37745	9	16°891	10°553	37819	12	21°607	15°438	37893	17	5°594	20°339				
37746	7	20°113	10°417	37820	8	22°629	15°362	37894	6	6°296	20°310				
37747	22	20°122	10°048	37821	7	22°741	15°637	37895*	31	7°631	20°399				
37748*	33	23°971	10°745	37822	10	23°618	15°148	37896	10	8°890	20°396				
37749	22	25°027	10°976	37823	14	23°736	15°757	37897	10	9°515	20°723				
37750	11	0°008	11°778	37824	9	24°578	15°285	37898	5	10°069	20°738				
37751	18	4°320	11°439	37825	7	25°134	15°432	37899	11	12°304	20°357				
37752	14	4°391	11°113	37826	21	25°201	15°020	37900*	46	12°395	20°471				
37753	6	9°295	11°059	37827	19	25°639	15°141	37901	13	14°577	20°745				
37754	7	10°796	11°496	37828	13	25°787	15°023	37902	8	17°755	20°621				
37755	6	14°687	11°782	37829	16	4°286	16°033	37903	19	22°469	20°628				
37756	11	15°518	11°342	37830	9	9°580	16°802	37904*	43	23°479	20°180				
37757	10	19°841	11°938	37831	34	10°894	16°054	37905	5	3°611	21°596				
37758	12	0°067	12°381	37832	9	11°109	16°221	37906	14	4°377	21°082				
37759	26	1°806	12°392	37833	10	11°205	16°130	37907*	26	4°566	21°713				
37760	20	3°529	12°736	37834	12	12°867	16°991	37908	16	4°605	21°717				
37761	17	4°753	12°946	37835	11	16°011	16°722	37909	12	4°899	21°094				

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Plate 1389; 1899 Apr. 21.

Provisional Constants.

A	B	C
-00010	+00584	-3139

D	E	F
-00650	-00022	-1634

Mag. = 15.3 - 1.25√d

No.	d	x	y
38001*	40	1°151	0°500
38002	7	4°055	0°438
38003	14	5°374	0°248
38004	14	7°082	0°991
38005	6	19°876	0°246
38006	5	21°312	0°243
38007	16	10°347	1°854
38008	7	13°075	1°873
38009	8	14°840	1°777
38010	8	14°858	1°796
38011	9	21°790	1°255
38012*	26	23°635	1°981
38013	14	24°843	1°469
38014	8	1°275	

38057	5	10·987	10·664	38131	5	19·481	20·752	38232	8	24·166	4·193	38306	7	24·130	18·448	38425	12	21·074	4·273
38058*	13	15·104	10·298	38132	5	25·079	20·437	38233	10	15·795	5·752	38307	7	24·752	18·247	38426	15	21·651	4·152
38059*	10	15·249	10·673	38133	10	3·084	21·470	38234	11	24·515	5·721	38308	6	4·647	19·802	38427	30	25·264	4·956
38060	11	15·636	10·658	38134	9	6·756	21·471	38235	7	25·784	5·742	38309	7	18·902	19·975	38428	16	3·338	5·579
38061*	34	22·610	10·455	38135	5	20·203	21·195	38236	8	2·593	6·149	38310	9	21·810	19·488	38429	14	4·609	5·594
38062	6	24·065	10·684	38136	6	9·470	22·061	38237	15	7·121	6·934	38311	14	22·412	19·043	38430	24	12·868	5·487
38063	12	24·109	10·631	38137	11	7·429	23·042	38238	12	8·190	6·813	38312*	18	0·122	20·135	38431	6	14·423	5·362
38064	9	4·863	11·563	38138	7	9·739	23·801	38239	7	20·486	6·103	38313	6	8·291	20·106	38432	5	15·502	5·286
38065	10	12·838	11·495	38139	11	11·256	23·569	38240	6	5·260	7·792	38314*	13	11·838	20·895	38433	12	25·531	5·589
38066	11	12·867	11·571	38140	7	12·234	23·476	38241	6	9·031	7·573	38315*	15	21·413	20·216	38434	22	4·837	6·815
38067*	22	13·391	11·474	38141	9	12·616	23·487	38242	10	9·677	7·066	38316	10	24·025	20·596	38435	11	4·966	6·831
38068	11	22·205	11·495	38142*	16	13·596	23·794	38243	6	21·455	7·715	38317	11	8·234	21·832	38436	19	5·225	6·963
38069	6	0·973	12·187	38143	8	17·165	23·915	38244	7	1·802	8·647	38318	5	13·505	21·153	38437	10	5·478	6·394
38070	7	3·726	12·484	38144*	18	17·174	23·226	38245	8	12·218	8·979	38319*	17	16·025	21·206	38438	23	15·154	6·961
38071	8	20·573	12·963	38145	10	22·706	23·195	38246	22	12·464	8·697	38320	9	20·086	21·954	38439	13	16·847	6·114
38072	7	22·956	12·783	38146*	30	3·468	24·844	38247	7	14·279	8·995	38321	10	9·315	22·665	38440	16	17·109	6·757
38073*	27	24·233	12·830	38147	7	13·666	24·665	38248	11	21·376	8·636	38322	8	1·090	23·474	38441	6	17·658	6·011
38074*	25	1·597	13·996	38148	6	15·185	25·005	38249	7	2·505	9·294	38323	6	14·668	23·851	38442	16	25·386	6·599
38075	6	8·198	13·618	38149	6	23·996	25·606	38250*	18	5·415	9·146	38324	9	6·599	24·815	38443	5	0·283	7·582
38076	6	10·694	13·630	38150	34	25·206	25·844	38251*	25	5·452	9·014	38325*	14	8·255	24·394	38444	16	5·621	7·423
38077	5	12·455	13·250					38252	7	5·500	9·703	38326*	30	8·831	24·767	38445	6	6·250	7·926
38078	8	16·218	13·981					38253	6	7·376	9·363	38327	12	9·825	24·034	38446	13	7·074	7·732
38079	7	18·260	13·589					38254	15	18·625	9·125	38328	5	2·408	25·859	38447	6	13·065	7·229
38080	6	20·489	13·733					38255	6	21·453	9·393	38329	8	13·525	25·307	38448	5	14·831	7·561
38081	9	0·456	14·595					38256	10	23·552	9·983	38330*	30	14·849	25·734	38449	8	19·793	7·841
38082*	16	1·584	14·214					38257*	30	0·802	10·735	38331	6	19·616	25·215	38450	19	19·994	7·800
38083	7	3·143	14·855					38258	6	2·256	10·939	38332	8	21·184	25·728	38451	11	20·106	7·281
38084	6	3·583	14·962					38259	10	2·304	10·885	38333	40	21·691	25·935	38452	5	21·819	7·717
38085	20	7·139	14·172					38260*	28	8·147	10·416					38453	5	22·840	7·374
38086	12	7·175	14·342					38261	9	12·296	10·847					38454	21	24·226	7·092
38087	5	9·214	14·242					38262	16	13·589	10·565					38455	14	0·209	8·499
38088	5	12·153	14·669					38263	5	20·528	10·607					38456*	40	12·944	8·807
38089	10	24·142	14·113					38264	10	0·410	11·777					38457	18	15·842	8·119
38090	5	24·540	14·974					38265	8	7·586	11·216					38458	6	18·077	8·130
38091	5	25·597	14·224					38266	7	22·880	11·511					38459*	37	23·140	8·047
38092	6	6·925	15·327					38267	9	8·348	12·865					38460	9	25·617	8·143
38093	5	10·956	15·898					38268	8	8·512	12·570					38461	15	2·389	9·844
38094*	24	15·873	15·828					38269	6	10·583	12·701					38462	5	7·602	9·407
38095	7	0·076	16·456					38270	10	13·240	12·856					38463	11	8·502	9·474
38096	7	2·472	16·396					38271	6	17·184	12·643					38464	12	18·276	9·342
38097*	20	3·179	16·569					38272*	36	17·190	12·615					38465	21	25·106	9·830
38098	10	7·136	16·716					38273	7	19·886	12·315					38466	14	25·544	9·442
38099	6	8·205	16·018					38274	9	22·234	12·513					38467	16	25·582	9·687
38100	7	15·639	16·426					38275	6	1·183	13·054					38468	6	4·154	10·510
38101	9	15·737	16·377					38276*	28	2·455	13·085					38469	5	5·675	10·211
38102	7	24·203	16·457					38277	6	6·798	13·548					38470	12	13·112	10·330
38103	10	24·440	16·254					38278	11	13·890	13·957					38471	9	17·943	10·182
38104	12	1·453	17·844					38279	5	18·210	13·978					38472	10	22·652	10·331
38105	8	12·061	17·764					38280	10	2·386	14·365					38473	12	1·718	11·370
38106*	24	17·545	17·344					38281	5	3·846	14·455					38474	5	2·151	11·337
38107	11	23·023	17·484					38282*	25	4·593	14·182					38475	7	5·780	11·146
38108	9	24·886	17·545					38283	6	9·565	14·578					38476	8	8·654	11·112
38109*	21	1·872	18·118					38284	5	10·933	14·304					38477	13	12·117	11·950
38110*	28	3·575	18·905					38285	13	24·751	14·058					38478	14	14·818	11·329
38111	16	9·065	18·610					38286	5	2·806	15·218					38479*	44	15·365	11·630
38112	7	11·375	18·623					38287*	25	4·770	15·320					38480	15	18·053	11·729
38113	8	18·524	18·084					38288	5	7·232	15·545					38481	24	18·059	11·728
38114*	15	18·643	18·042					38289	20	8·233	15·308					38482	10	18·601	11·466
38115*	27	21·445	18·584					38290	6	10·346	15·045					38483	22	19·687	11·984
38116	10	2·534	19·825					38291	5	10·663	15·444					38484	13	22·083	11·130
38117	5	6·740	19·956					38292	6	2·485	16·706					38485	15	1·078	12·379
38118	5	13·934	19·572					38293	10	2·722	16·501					38486	9	3·593	12·825
38119*	15	20·244	19·986					38294	6	7·518	16·809					38487	10	4·921	12·388
38120	8	20·718	19·675					38295	9	12·889	16·256					38488	12	5·667	12·486
38121	5	21·116	19·664					38296*	15	19·424	16·155					38489	10	11·987	12·333
38122*	20	21·786	19·845					38297	8	1·322	17·755					38490	9	13·138	12·255
38123	5	0·615	20·555					38298	9	3·188	17·786					38491	17	13·442	12·380
38124*	37	1·604	20·071					38299	8	5·706	17·134					38492*	30	13·525	12·158
38125	13	4·457	20·125					38300	6	15·619	17·265					38493	5	15·223	12·660
38126	8	6·187	20·021					38301	17	15·756	17·285					38494	9	24·005	12·791
38127	10	8·574	20·265					38302	8	8·420	18·144					38495*	29	24·468	12·719
38128	8	12·905	20·023					38303	10	8·915	18·986					38496	14	25·646	12·170
38129	9	16·384	20·573					38304	8	20·620	18·260					38497	21	3·599	13·916
38130*	23	16·559	20·817					38305	9	24·006	18·277					38498	5</		

38499	23	15°00	13°361					38657	5	18°705	8°716	38731	14	15°012	18°424	38809*	31	10°475	1°496
38500	10	16°363	13°917					38658	6	20°484	8°265	38732	5	16°617	18°555	38810	10	17°986	1°560
38501	7	2°402	14°385	R. A. 11^h 0^m				38659	7	22°174	8°971	38733	6	17°831	18°373	38811	9	4°308	2°793
38502	6	3°553	14°404	Plate 2730; 1909 Feb. 22.				38660	8	24°678	8°156	38734	13	18°004	18°289	38812	27	5°984	2°385
38503	8	4°964	14°706	<i>Provisional Constants.</i>				38661	10	25°990	8°970	38735*	22	6°315	19°401	38813	9	15°909	2°109
38504	7	12°503	14°364					38662	21	3°338	9°726	38736	11	6°606	19°716	38814	6	23°504	2°573
38505	8	16°850	14°833					38663	15	3°768	9°332	38737	6	8°431	19°314	38815	10	7°240	3°711
38506	9	19°937	14°510					38664	15	3°810	9°576	38738	20	12°850	19°777	38816	10	8°515	3°211
38507*	28	19°969	14°443					38665*	36	15°429	9°914	38739	17	14°006	19°402	38817	9	12°136	3°777
38508	10	21°788	14°277					38666	14	17°148	9°477	38740	21	23°872	19°530	38818	7	12°698	3°488
38509	21	24°848	14°985					38667	22	24°259	9°611	38741	15	24°551	19°590	38819	8	20°182	3°764
38510*	23	7°075	15°815					38668	5	6°372	10°453	38742	7	4°309	20°193	38820	13	1°484	4°481
38511	6	7°988	15°857					38669	5	6°479	10°325	38743*	22	7°066	20°129	38821	12	6°598	4°163
38512	13	10°280	15°032					38670	6	11°976	10°309	38744	17	7°250	20°631	38822	9	9°481	4°695
38513	8	16°919	15°075					38671	21	12°275	10°802	38745	15	10°935	20°417	38823	9	17°416	4°717
38514	20	17°660	15°421					38672	7	14°044	10°368	38746*	22	11°207	20°578	38824	5	12°589	5°578
38515	11	21°528	15°480					38673	18	17°401	10°794	38747*	29	13°208	20°374	38825*	48	14°745	5°538
38516	18	7°504	16°715					38674	15	18°060	10°350	38748	11	17°157	20°993	38826	9	16°916	5°028
38517*	120	8°435	16°079	No.	d	x	y	38675	6	19°169	10°117	38749	6	23°160	20°004	38827	9	19°920	5°780
38518	14	16°142	16°636	38601	13	16°688	0°123	38676	11	22°908	10°884	38750*	29	17°56	21°803	38828	8	1°124	6°213
38519	17	17°545	16°538	38602	19	16°951	0°767	38677	10	0°331	11°069	38751*	49	13°085	21°607	38829*	23	12°985	6°246
38520	12	21°003	16°722	38603	21	21°102	0°449	38678	17	9°168	11°831	38752	17	13°604	21°246	38830	7	17°442	6°304
38521	7	5°394	17°902	38604	5	7°869	1°399	38679*	14	9°511	11°393	38753	6	14°303	21°327	38831	6	17°816	7°821
38522	14	14°180	17°300	38605	10	10°933	1°225	38680*	17	11°107	11°354	38754	6	16°352	21°429	38832	7	9°436	8°596
38523	15	20°502	17°075	38606	13	12°217	1°693	38681*	20	11°476	11°203	38755	23	17°139	21°811	38833	8	9°819	8°375
38524	17	20°781	17°921	38607	11	13°087	1°257	38682	7	12°285	11°814	38756	20	17°580	21°633	38834	9	10°425	8°019
38525	19	1°277	18°905	38608	10	15°532	1°550	38683	5	15°423	11°568	38757	11	18°878	21°926	38835	5	11°938	8°415
38526	14	2°870	18°136	38609	12	15°669	1°522	38684	5	16°817	11°565	38758	16	13°222	22°341	38836	10	19°601	8°550
38527	13	2°995	18°305	38610	7	6°975	2°580	38685	9	19°892	11°348	38759	12	19°206	22°438	38837	7	21°574	8°545
38528	12	3°613	18°104	38611	16	8°586	2°543	38686	5	21°481	11°193	38760	5	20°055	22°733	38838	12	1°774	9°826
38529	23	5°372	18°571	38612	13	10°937	2°938	38687	31	24°140	11°194	38761	8	21°380	22°041	38839	5	3°486	9°145
38530	11	6°095	18°046	38613	20	11°259	2°102	38688	8	2°279	12°702	38762	9	2°636	23°382	38840	8	11°046	9°205
38531*	23	8°642	18°991	38614	11	12°584	2°514	38689*	30	2°742	12°626	38763*	36	7°600	23°833	38841	6	17°331	9°674
38532	16	11°534	18°237	38615	22	12°685	2°459	38690	13	3°913	12°058	38764	10	22°934	23°369	38842	10	6°952	10°813
38533	30	19°787	18°581	38616	7	15°775	2°442	38691	27	5°746	12°717	38765	9	5°943	24°101	38843*	8	17°512	10°980
38534	20	20°342	18°264	38617	23	15°989	2°461	38692	6	10°494	12°808	38766	5	11°506	24°928	38844	8	18°369	10°497
38535	5	25°947	18°857	38618	40	0°328	3°625	38693	20	22°739	12°101	38767	13	21°133	24°946	38845	8	18°386	10°375
38536	13	0°675	19°356	38619*	44	5°232	3°240	38694	6	10°658	13°888	38768	19	6°007	25°983	38846*	28	20°825	10°155
38537	6	2°759	19°628	38620	23	22°125	3°051	38695	9	13°529	13°390	38769	9	8°583	25°207	38847	25	1°691	11°413
38538	5	12°686	19°379	38621	30	3°423	4°850	38696	13	15°878	13°738	38770	14	10°399	25°502	38848	8	4°395	11°855
38539	5	21°120	19°608	38622	6	5°567	4°229	38697	14	16°530	13°776	38771	7	12°703	25°017	38849	18	7°186	11°583
38540	21	0°282	20°087	38623	13	6°189	4°941	38698	5	17°379	13°450	38772*	60	17°888	25°657	38850	6	9°494	11°636
38541	15	2°895	20°456	38624	5	9°955	4°470	38699	6	20°233	13°671	38773	7	19°392	25°983	38851	6	12°774	11°824
38542*	18	8°894	20°816	38625	18	19°463	4°227	38700	21	3°156	14°883					38852	6	17°556	11°057
38543	10	10°170	20°027	38626	14	19°466	4°215	38701	19	10°359	14°661					38853	8	21°486	11°300
38544	9	11°279	20°004	38627	6	20°430	4°422	38702	6	10°994	14°569					38854	10	0°315	12°355
38545*	18	19°790	20°735	38628	20	24°099	4°260	38703*	26	13°857	14°651					38855	7	10°720	12°131
38546	5	25°922	20°310	38629	12	3°699	5°479	38704	22	20°893	14°677					38856	12	11°415	12°835
38547	18	13°806	21°547	38630	12	7°137	5°686	38705	7	24°548	14°930					38857	11	25°237	12°684
38548	15	14°023	21°903	38631	13	15°073	5°262	38706	26	5°155	15°019					38858	6	14°298	13°790
38549	8	16°477	21°146	38632	12	18°401	5°086	38707	9	10°857	15°179					38859	6	7°050	14°512
38550	16	17°974	21°669	38633	10	20°046	5°931	38708	14	11°024	15°092					38860	7	21°584	14°653
38551	10	18°095	21°885	38634	5	22°414	5°113	38709	18	15°526	15°006					38861	5	22°087	14°065
38552*	30	18°439	21°867	38635	15	23°699	5°982	38710	5	15°541	15°790					38862	7	22°424	14°725
38553*	29	23°348	21°881	38636	20	2°417	6°999	38711*	80	22°710	15°166					38863	7	25°650	14°880
38554	6	10°469	22°647	38637	17	3°568	6°491	38712	6	25°607	15°513					38864*	76	0°356	15°416
38555*	36	12°594	22°373	38638	23	9°756	6°340	38713	13	4°803	16°622					38865	6	5°778	15°224
38556*	37	19°785	22°642	38639	24	16°347	6°148	38714	7	6°005	16°194					38866	7	10°057	15°212
38557	9	22°430	22°647	38640	21	16°473	6°589	38715	12	6°438	16°336					38867*	46	10°394	15°247
38558*	38	21°515	23°156	38641	20	19°848	6°422	38716	11	10°309	16°271					38868*	20	16°712	15°717
38559	12	24°203	23°471	38642*	39	1°347	7°974	38717	17	13°103	16°993					38869	7	18°404	15°932
38560*	72	5°926	24°956	38643	10	6°089	7°960	38718*	21	14°500	16°682					38870	6	21°842	15°176
38561	15	6°589	24°554	38644	27	6°798	7°695	38719	6	15°237	16°885					38871	7	25°415	15°729
38562	22	13°359	24°801	38645	11	10°244	7°295	38720	24	19°624	16°006					38872	13	9°284	16°221
38563	11	18°870	24°277	38646	6	16°330	7°136	38721	15	21°455	16°318					38873	8	14°815	16°044

38883	6	23°327	18°494	39032	12	7°156	6°684	39106*	40	3°125	20°017	39227	17	15°792	6°413	39301	5	9°305	17°109				
38884	11	1°626	19°755	39033	8	7°290	6°292	39107*	18	25°667	20°754	39228	13	18°967	6°115	39302	17	9°472	17°276				
38885	9	2°312	19°795	39034	14	8°814	6°091	39108	6	1°478	21°486	39229	11	21°686	6°904	39303	4	9°483	17°518				
38886*	36	16°956	19°246	39035	6	16°199	6°693	39109	10	9°114	21°255	39230	9	3°035	7°058	39304	15	13°365	17°636				
38887*	39	13°668	20°688	39036	11	17°815	6°737	39110	5	12°773	21°453	39231	20	4°376	7°945	39305*	36	15°364	17°915				
38888	8	16°310	20°949	39037	10	21°666	6°531	39111	14	15°321	21°094	39232*	20	8°617	7°651	39306	12	18°938	17°332				
38889	16	16°804	20°783	39038	15	23°470	6°235	39112	15	0°435	22°275	39233*	24	8°631	7°807	39307	11	19°310	17°285				
38890*	40	24°710	20°053	39039	8	5°034	7°896	39113*	36	4°871	22°202	39234	9	13°024	7°335	39308	9	0°394	18°272				
38891*	30	5°367	21°072	39040	7	7°005	7°605	39114	7	5°945	22°015	39235	13	16°355	7°043	39309	8	2°896	18°597				
38892	6	23°038	21°495	39041*	21	11°348	7°702	39115	8	18°284	22°994	39236	7	19°951	7°802	39310	10	10°537	18°006				
38893	6	7°584	22°514	39042	6	24°234	7°123	39116*	27	5°606	23°012	39237	21	6°896	8°107	39311	13	14°892	18°381				
38894	5	17°451	22°611	39043*	28	5°535	8°434	39117	14	15°012	23°815	39238	4	6°917	8°584	39312*	40	14°933	18°668				
38895	20	21°992	22°266	39044	7	6°424	8°928	39118	6	18°170	23°432	39239	20	7°856	8°878	39313	7	17°597	18°722				
38896	10	10°384	24°970	39045	6	10°736	8°727	39119*	29	21°099	23°711	39240	15	8°119	8°620	39314*	42	7°536	19°611				
38897*	22	12°315	24°049	39046	13	25°566	8°015	39120	6	21°451	23°550	39241	19	9°864	8°774	39315	11	8°951	19°599				
38898	8	18°734	24°106	39047	14	4°278	9°750	39121	15	24°010	23°394	39242	7	10°034	8°006	39316	10	14°539	19°869				
38899*	52	24°490	24°968	39048	8	5°195	9°105	39122*	60	2°975	24°936	39243	11	11°759	8°337	39317	7	16°401	19°903				
38900	5	14°567	25°475	39049	8	6°845	9°024	39123*	12	12°084	24°925	39244	10	12°889	8°886	39318*	24	4°550	20°681				
38901	5	16°324	25°073	39050	10	22°707	9°075	39124	6	18°786	24°374	39245	6	15°784	8°921	39319	7	5°690	20°354				
38902	6	20°616	25°597	39051	6	10°045	10°915	39125*	23	23°946	24°236	39246	5	19°763	8°417	39320	8	6°442	20°084				
				39052	5	12°496	10°228	39126	20	5°283	25°935	39247	10	21°896	8°320	39321	16	8°147	20°207				
				39053	7	19°088	10°473	39127	5	6°250	25°812	39248	7	21°951	8°226	39322	14	10°152	20°851				
				39054	6	19°465	10°443	39128*	18	9°681	25°287	39249	18	22°852	8°368	39323	12	12°487	20°614				
				39055	6	21°866	10°118	39129*	27	14°615	25°144	39250	18	25°324	8°890	39324	5	14°419	20°452				
				39056	20	20°515	11°440	39130*	15	18°495	25°166	39251	14	1°521	9°022	39325	10	17°103	20°539				
				39057	5	21°575	11°219													39326	9	17°816	20°486
				39058	10	23°475	11°834													39327	4	19°081	20°542
				39059	13	3°545	12°639													39328	13	21°433	20°149
				39060*	21	19°546	12°366													39329	12	10°416	21°418
				39061*	26	23°135	12°705													39330	7	11°857	21°192
				39062*	28	23°715	12°132													39331	13	15°136	21°545
				39063	6	23°820	12°994													39332*	24	6°233	22°317
				39064	6	23°902	12°463													39333	15	6°331	22°137
				39065	9	4°677	13°864													39334	15	12°253	22°124
				39066	5	11°782	13°726													39335	8	15°465	22°078
				39067	7	11°859	13°746													39336*	31	15°586	22°953
				39068	6	12°156	13°842													39337	22	17°178	22°167
				39069	9	0°756	14°723													39338	16	18°474	22°505
				39070	9	3°987	14°831													39339	18	19°171	22°717
				39071	5	7°805	14°765													39340	4	22°659	22°640
				39072	13	9°776	14°294													39341	11	24°661	22°202
				39073	10	12°664	14°441													39342	38	0°000	23°669
				39074	8	16°125	14°935													39343	26	2°910	23°334
				39075	8	0°184	15°183													39344	4	9°249	23°512
				39076	8	3°765	15°683													39345	12	9°273	23°389
				39077	16	6°120	15°993													39346*	33	12°511	23°846
				39078	12	22°120	15°236													39347	7	15°166	23°314
				39079	16	25°669	15°714													39348	16	15°960	23°865
				39080	6	2°567	16°100													39349	8	17°248	23°204
				39081	9	9°245	16°917													39350	18	21°061	23°429
				39082*	18	15°567	16°445													39351*	39	2°853	24°176
				39083*	41	16°534	16°126													39352	8	5°666	24°124
				39084	8	16°842	16°266													39353	14	11°884	24°007
				39085	6	20°802	16°504													39354*	24	17°341	24°735
				39086	6	21°149	16°953													39355	24	21°537	24°684
				39087	9	9°584	17°905													39356	9	23°648	24°422
				39088	5	9°785	17°997													39357	9	7°980	25°621
				39089	14	13°554	17°787													39358*	33	8°557	25°447
				39090	5	14°976	17°544													39359	15	12°850	25°672
				39091	12	19°757	17°990													39360	8	23°648	25°425
				39092*	14	1°606	18°025																
				39093	7	1°715	18°476																
				39094	8	6°528	18°716																
				39095	12	15°906	18°838																
				39096	12	19°071	18°175																
				39097*	26	19°684	18°747																
				39098	5	20°730	18°714																
				39099	8	21°528	18°320																
				39100	5	24°027	18°657																
				39101	7	2°057	19°074																
				39102	5	7°701	19°771																
				39103	12	15°634	19°098																
				39104	10	16°155	19°465																
				39105	6	16°198	19°500																

R. A. 11^h 16^m

Plate 1392; 1899 May 3.

Provisional Constants.

A

B

C

-00038

+00507

-3318

D

E

F

-00546

-00024

-1657

Mag. = 15.6 - 1.25√d

R. A. 11^h 24^m

Plate 2731; 1909 Feb. 22.

Provisional Constants.

A

B

C

-00025

-00326

+3502

D

E

F

+00344

-00009

-3634

Mag. = 15.4 - 1.25√d

No.	d	x	y
39201	14	4°710	0°725
39202	15	9°097	0°013
39203	12	11°576	0°476
39204	19	14°819	0°008
39205	23	8°438	1°387
39206	14	15°176	1°758
39207	21	8°510	2°076
39208	7	11°248	2°954
39209	13	17°511	2°975
39210	21	5°837	3°708
39211	10	15°352	3°341
39212	15	15°956	3°556
39213	13	9°141	4°210
39214	14	10°164	4°356
39215	13	10°283	4°676
39216	22	22°759	4°908
39217	14	16°016	5°679
39218	19	19°341	5°138
39219*	21	20°109	5°803
39220	18	23°310	5°914
39221	10	0°466	6°485
39222	21	2°264	6°180
39223	6	6°217	6°077
39224	12	8°286	6°916
39225	16	9°657	6°084
39226	8	13°834	6°085
39227	17	15°792	6°413
39228	13	18°967	6°115
39229	11	21°686	6°904
39230	9	3°035	7°058
39231	20	4°376	7°945
39232*	20	8°617	7°651
39233*	24	8°631	7°807
39234	9	13°024	7°335
39235	13	16°355	7°043
39236	7	19°951	7°802

R. A. 11^h 32^m

Plate 2768; 1909 Apr. 14.

Provisional Constants.

A	B	C
-00062	-00690	+1427

D	E	F
+00666	-00004	-2477

Mag. = 15.4 - 1.25 \sqrt{d}

No.	d	α	γ
39401	6	14°38.4	0°017
39402*	26	16°28.6	0°424
39403	7	19°63.6	0°034
39404	12	14°16.3	1°662
39405	24	20°66.2	1°081
39406	19	4°35.1	2°980
39407*	32	21°43.2	2°594
39408*	21	21°92.1	2°767
39409*	32	9°07.7	3°893
39410	7	12°39.6	3°375
39411	8	13°23.1	3°570
39412	17	18°37.0	3°609
39413	7	19°44.9	3°283
39414	6	20°16.6	3°181
39415	20	0°66.0	4°967
39416	7	10°02.9	4°286
39417	19	13°07.8	4°114
39418	4	17°17.4	4°322
39419*	52	21°15.7	4°065
39420	17	1°22.3	5°968
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39422	6	15°58.3	5°923
39423	14	17°33.1	5°456
39424*	31	17°75.0	5°199
39425	8	11°48.2	6°742
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39427	11	18°39.1	6°198
39428	9	4°34.9	7°975
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39430	6	10°23.9	7°487
39431	12	13°80.6	7°744
39432	13	20°39.4	7°655
39433	18	0°79.5	8°426
39434	14	3°27.4	8°921
39435	8	6°58.2	8°699
39436	6	13°51.9	8°530
39437	11	14°29.9	8°390
39438	17	16°15.7	8°682
39439*	23	20°93.4	8°988
39440	7	21°02.6	8°821
39441	5	20°21.5	9°499
39442	24	24°12.7	9°056
39443*	20	8°70.1	10°691
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39445*	24	0°43.9	11°323
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39447	13	4°43.6	11°906
39448	6	4°97.1	12°201
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39459	11	18°11.1	13°816
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39466*	22	9°17.3	14°775
39467	13	12°76.8	14°594
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39495	17	12°62.8	20°821
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39501	12	7°70.4	22°100
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39503	19	25°16.0	22°001
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39506*	18	8°68.5	23°628
39507*	40	19°07.1	23°171
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39510*	30	14°66.2	24°264
39511	12	12°38.9	25°787
39512	9	14°58.7	25°929
39513	9	16°06.2	25°816
39514	7	16°66.9	25°049
39515	12	20°23.3	25°007
39516	8	22°38.4	25°901

R. A. 11^h 40^m

Plate 2732; 1909 Feb. 22.

Provisional Constants.

A	B	C
-00076	-00636	+4049

D	E	F
-00572	-00034	-3640

Mag. = 15.1 - 1.25 \sqrt{d}

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39660	11	11°27.3	11°302
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39728	11	10°80.0	19°567
39729	6	11°21.9	19°778
39730	8	18°10.6	19°841

39731	10	21°05.5	19°468
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39735*	34	14°16.7	20°717
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39737	11	25°22.0	20°251
39738	21	25°93.9	20°051
39739	19	3°82.6	21°711

39818	11	11'272	4'256	39892*	17	8'211	21'840	40024	8	11'519	5'687	40098	9	13'962	19'191	40225	13	14'316	5'628
39819*	23	12'284	4'906	39893	11	9'407	21'018	40025	7	11'999	5'870	40099	13	15'550	19'065	40226	9	15'023	5'321
39820	18	9'001	5'798	39894*	19	11'812	21'575	40026*	33	13'187	5'573	40100	7	18'184	19'758	40227	13	15'675	5'202
39821	13	11'916	5'591	39895	15	14'056	21'687	40027*	26	13'216	5'894	40101	16	18'369	19'541	40228	5	3'119	6'505
39822*	26	16'881	5'308	39896	7	19'970	21'193	40028	11	20'079	5'812	40102	13	15'462	20'482	40229	6	6'398	6'984
39823	12	19'717	5'213	39897	18	20'574	21'217	40029*	30	7'551	6'414	40103*	34	20'123	20'896	40230	15	7'394	6'179
39824	7	12'067	6'376	39898	7	14'212	22'518	40030*	33	9'894	6'876	40104*	44	4'696	21'183	40231	17	8'273	6'512
39825	9	18'841	6'814	39899	10	14'933	22'849	40031	11	20'589	6'184	40105	20	2'787	22'338	40232*	32	10'374	6'167
39826	6	22'325	6'947	39900	19	24'344	22'450	40032	9	21'552	6'603	40106	13	12'566	22'366	40233	8	6'637	7'358
39827	9	22'579	6'840	39901	5	24'934	22'828	40033	7	24'513	6'592	40107	9	21'717	22'683	40234	12	14'315	7'770
39828	15	24'821	6'097	39902	9	4'464	23'879	40034	8	25'083	6'772	40108*	39	17'473	23'508	40235	10	5'035	8'148
39829	7	10'232	7'018	39903*	26	8'040	23'560	40035	11	3'915	7'333	40109	19	20'108	23'552	40236*	19	9'042	8'052
39830	6	10'761	7'163	39904	17	12'493	23'146	40036	19	4'062	7'142	40110*	18	24'721	23'292	40237	20	12'978	8'803
39831	17	25'828	7'276	39905	5	13'031	23'153	40037	5	20'243	7'479	40111	20	0'598	24'851	40238	21	20'099	8'881
39832	14	2'630	8'604	39906	15	15'287	23'083	40038	22	20'510	7'440	40112*	28	12'303	24'130	40239	22	6'654	9'119
39833	7	2'681	8'730	39907	7	18'861	23'031	40039	6	11'448	8'019	40113	12	14'085	24'304	40240	10	7'351	9'460
39834	18	7'798	8'813	39908	6	6'123	24'315	40040	6	16'295	8'334	40114	16	14'666	24'529	40241	12	12'832	9'004
39835	9	7'999	8'098	39909	20	7'215	24'909	40041	25	1'569	9'964	40115	6	17'770	24'128	40242	18	17'103	9'937
39836	20	21'103	8'607	39910	17	8'399	24'524	40042	12	14'073	9'394	40116	22	18'888	24'582	40243	29	23'545	9'588
39837	18	5'250	9'661	39911*	24	10'852	24'833	40043*	27	17'934	9'720	40117	17	20'429	24'057	40244	17	1'661	10'056
39838	7	10'272	9'259	39912	9	15'694	24'171	40044*	40	21'511	9'070	40118	18	9'190	25'500	40245	10	10'820	10'669
39839	6	5'463	10'867	39913	8	19'229	24'319	40045*	37	13'547	10'171	40119	19	9'810	25'910	40246	6	13'361	10'300
39840	9	19'546	10'032	39914	23	22'122	24'931	40046	20	23'600	10'310	40120	13	11'797	25'910	40247*	20	14'428	10'741
39841	12	21'633	10'306	39915	5	22'984	24'885	40047	5	24'602	10'900	40121	20	12'230	25'232	40248*	37	15'696	10'678
39842	23	23'298	10'061	39916	4	11'625	25'526	40048	8	8'348	11'027	40122	24	19'259	25'302	40249	23	22'628	10'445
39843	13	2'711	11'172	39917	8	16'218	25'307	40049	7	19'158	11'399	40123	8	19'434	25'421	40250	5	17'495	11'421
39844	19	3'096	11'689	39918*	43	19'034	25'849	40050	6	2'224	12'540	40124	23	23'283	25'098	40251*	32	18'304	11'420
39845	7	8'217	11'342	39919*	36	20'660	25'512	40051	11	5'711	12'500					40252	13	20'529	11'459
39846	17	20'339	11'501	39920	13	20'854	25'949	40052	5	7'822	12'543					40253	11	20'586	11'704
39847	8	20'397	11'499					40053	23	10'520	12'767					40254	20	21'387	11'171
39848	13	2'081	12'089					40054*	42	17'385	12'982					40255	8	25'312	11'452
39849	6	3'848	12'504					40055	26	17'650	12'220					40256	9	2'470	12'571
39850	14	19'362	12'290					40056	9	24'388	12'832					40257	5	7'782	12'343
39851	6	23'917	12'647					40057	13	4'285	13'553					40258	14	21'925	12'257
39852	18	10'787	13'312					40058	5	4'458	13'548					40259	8	7'787	13'681
39853	11	14'662	13'895					40059*	29	4'866	13'509					40260	25	15'601	13'592
39854	19	15'613	13'634					40060	15	7'000	13'221					40261	6	22'091	13'907
39855	5	19'242	13'307					40061	12	13'395	13'986					40262	17	23'466	13'574
39856	8	25'964	13'688					40062	14	15'668	13'949					40263	15	1'941	14'819
39857	7	11'847	14'096					40063	7	16'190	13'435					40264	20	7'553	14'614
39858	11	11'891	14'919					40064	9	21'285	13'526					40265	6	12'228	14'662
39859*	19	22'336	14'273					40065*	21	0'665	14'188					40266	13	17'644	14'155
39860*	24	24'270	14'758					40066*	29	2'608	14'649					40267	5	18'030	14'561
39861	5	11'018	15'393					40067	8	21'258	14'284					40268	12	25'282	14'140
39862	7	11'644	15'122					40068*	17	7'681	15'610					40269	5	0'544	15'362
39863	12	14'026	15'968					40069*	41	7'886	15'066					40270	11	0'769	15'703
39864*	16	15'620	15'837					40070	18	10'794	15'770					40271	14	9'052	15'670
39865*	23	15'666	15'758					40071*	23	19'411	15'507					40272	7	9'458	15'066
39866	11	17'154	15'868					40072	9	22'440	15'609					40273*	26	12'454	15'915
39867	22	18'509	15'926					40073	14	22'666	15'950					40274	6	13'765	15'129
39868	7	10'847	16'671					40074	16	23'843	15'075					40275	16	13'798	15'828
39869	16	21'210	16'524					40075*	28	1'294	16'103					40276	14	18'305	15'500
39870	18	21'406	16'958					40076*	11	11'526	16'352					40277	11	19'729	15'818
39871	6	22'215	16'663					40077	7	13'651	16'606					40278	9	19'993	15'251
39872*	23	22'936	16'196					40078	13	17'992	16'565					40279	16	0'433	16'200
39873	11	0'639	17'745					40079	8	18'901	16'023					40280	7	2'963	16'047
39874	15	5'967	17'314					40080	12	21'790	16'612					40281*	18	3'849	16'148
39875	9	6'652	17'125					40081	17	22'327	16'443					40282	26	6'406	16'031
39876	8	10'083	17'381					40082	6	24'853	16'309					40283	14	6'960	16'921
39877	11	13'397	17'626					40083*	18	25'739	16'418					40284	5	11'106	16'821
39878	13	13'584	17'391					40084	9	7'201	17'429					40285	8	13'327	16'101
39879	16	13'859	17'630					40085*	42	17'523	17'630					40286*	47	18'767	16'643
39880	13	16'811	17'834					40086	18	18'751	17'686					40287	11	20'896	16'631
39881	18	16'840	17'454					40087	8	20'359	17'042					40288	22	24'591	16'524
39882	8	11'182	19'185					40088	25	21'918	17'487					40289	24	0'032	17'247
39883*	20	21'990	19'467					40089	12	4'974	18'459					402	17	5'656	17'418
39884*	23	25'854	19'256					40090	5	8'765	18'749					40291	25	9'014	17'399
39885	7	3'288	20'272					40091	7	18'370	18'782					40292	11	9'259	17'716
39886	22	4'000	20'061					40092	11	19'605	18'333					40293*	28	11'321	17'090
39887	11	7'407	20'442					40093*	43	20'943	18'885					40294*	26	19'660	17'055
39888	8	11'328	20'341					40094	11	25'616	18'707					40295	6	25'243	17'700
39889	7	15'289	20'335					40095	22	25'965	18'672					40296	13	3'741	18'438
39890	12																		

40299	19	5°175	18°272	40417	21	8°949	3°460	40491	13	11°826	15°078	40657	9	18°558	8°420
40300	14	9°161	18°399	40418	15	12°082	3°501	40492*	32	13°613	15°044	40658	13	22°809	8°261
40301	20	10°580	18°517	40419	8	13°654	3°278	40493	5	21°198	15°701	40659	22	23°666	8°483
40302	13	10°771	18°783	40420	13	16°711	3°264	40494	17	21°527	15°284	40660*	71	25°389	8°915
40303	9	22°108	18°682	40421	11	17°065	3°255	40495	22	3°319	16°357	40661	5	3°024	9°698
40304	6	8°724	19°541	40422	8	19°281	3°411	40496	6	7°485	16°583	40662	14	4°834	9°055
40305	5	24°815	19°388	40423	6	20°302	3°896	40497	13	15°173	16°761	40663	7	9°861	9°617
40306	16	25°743	19°404	40424	23	21°089	3°704	40498	7	3°997	17°517	40664*	26	16°653	9°639
40307*	19	16°232	20°501	40425	7	23°801	3°119	40499	6	11°834	17°495	40665	6	18°204	9°664
40308	11	19°928	20°552	40426	14	11°934	4°103	40500	22	12°628	17°831	40666	7	19°287	9°398
40309	13	16°275	21°271	40427	16	13°392	4°207	40501	13	16°683	17°631	40667	8	19°402	9°640
40310	6	25°222	21°522	40428	10	16°893	4°434	40502*	34	18°624	17°711	40668	12	22°344	9°625
40311	16	5°633	22°499	40429	5	20°806	4°035	40503	14	22°286	17°081	40669	8	0°803	10°403
40312	7	9°946	22°539	40430	15	21°065	4°698	40504	5	0°887	18°572	40670	7	1°218	10°088
40313	13	11°142	22°172	40431	5	7°873	5°633	40505	6	9°101	18°699	40671*	29	1°674	10°056
40314*	22	16°037	22°301	40432	6	9°549	5°784	40506	7	12°825	18°777	40672	18	7°995	10°693
40315	6	18°056	22°872	40433	11	12°614	5°085	40507	19	13°206	18°671	40673	19	10°221	10°412
40316	12	18°830	22°150	40434	13	16°917	5°059	40508	7	15°042	18°143	40674	20	16°147	10°843
40317	10	21°551	22°098	40435	12	6°528	6°141	40509	10	16°936	18°399	40675	17	17°244	10°236
40318	22	22°026	22°959	40436*	67	11°348	6°880	40510	14	22°306	18°379	40676*	29	20°252	10°271
40319*	17	2°880	23°032	40437	5	11°446	6°243	40511	17	4°541	19°206	40677	13	21°301	10°916
40320*	26	9°299	23°494	40438	13	20°611	6°806	40512	16	7°716	19°443	40678	15	21°609	10°276
40321	11	9°729	23°980	40439	13	7°948	7°389	40513	6	19°233	19°399	40679	6	24°547	10°949
40322	5	9°892	23°432	40440	7	8°813	7°973	40514*	45	24°197	19°940	40680	13	25°223	10°034
40323	22	10°410	23°166	40441	13	9°613	7°907	40515	14	24°985	19°647	40681	11	4°077	11°642
40324*	31	16°334	23°539	40442	14	11°791	7°229	40516*	53	25°194	19°580	40682	14	5°660	11°371
40325	6	21°595	23°001	40443*	28	20°880	7°390	40517	7	4°821	20°567	40683	12	8°067	11°592
40326	23	1°453	24°850	40444	6	16°881	8°430	40518	6	8°858	20°194	40684	20	11°237	11°370
40327*	39	9°815	24°013	40445	14	21°250	8°553	40519	5	10°749	20°830	40685	12	19°974	11°984
40328	12	10°855	24°770	40446	5	23°329	8°804	40520*	35	15°274	20°194	40686	9	21°252	11°909
40329	10	14°518	24°229	40447*	27	23°621	8°840	40521	20	15°482	20°907	40687	10	6°908	12°739
40330	14	15°998	24°998	40448	28	2°100	9°449	40522	11	16°470	20°987	40688	14	14°228	12°048
40331	24	23°433	24°012	40449	5	4°611	9°867	40523	9	18°926	20°193	40689	17	16°719	12°229
40332	15	11°794	25°644	40450	8	7°919	9°478	40524*	46	19°252	20°289	40690	8	24°589	12°424
40333	12	14°989	25°067	40451	13	11°016	9°729	40525	12	20°430	20°910	40691	23	0°678	13°415
				40452	5	20°249	9°976	40526	8	23°451	20°929	40692*	34	3°742	13°596
				40453	6	24°847	9°857	40527	15	24°852	20°772	40693	11	17°828	13°804
				40454	22	1°204	10°327	40528*	14	24°987	20°860	40694	12	25°511	13°578
				40455	13	10°928	10°531	40529	6	4°068	21°338	40695*	27	25°946	13°864
				40456	11	11°021	10°789	40530*	16	8°259	21°929	40696	6	7°046	14°021
				40457	13	11°349	10°550	40531	6	9°499	21°321	40697	12	8°804	14°732
				40458	14	13°722	10°171	40532	14	11°191	21°908	40698*	40	9°066	14°583
				40459	10	15°089	10°641	40533	6	20°589	21°094	40699	6	9°137	14°493
				40460	13	19°002	10°704	40534	5	20°816	21°584	40700	17	9°411	14°519
				40461*	30	19°892	10°982	40535	19	0°910	22°853	40701	12	10°877	14°261
				40462	20	21°331	10°301	40536	7	6°598	22°676	40702	6	10°917	14°233
				40463	11	22°620	10°537	40537	8	11°482	22°178	40703	21	13°523	14°008
				40464	11	23°036	10°226	40538	13	17°740	22°824	40704	6	13°600	14°429
				40465*	28	23°494	10°198	40539	20	17°984	22°471	40705	19	17°117	14°337
				40466	8	3°914	11°268	40540	22	20°741	22°360	40706	23	17°761	14°802
				40467	15	6°919	11°032	40541	13	23°286	22°402	40707	5	18°683	14°684
				40468	12	12°570	11°796	40542	23	2°344	23°871	40708	13	7°057	15°184
				40469	7	14°799	11°891	40543	11	7°013	23°286	40709*	40	19°864	15°420
				40470*	26	18°135	11°055	40544	6	10°632	23°209	40710	13	0°539	16°952
				40471	11	18°955	11°192	40545	5	10°774	23°542	40711*	67	5°493	16°740
				40472	5	20°859	11°851	40546	12	13°739	23°675	40712	16	6°024	16°603
				40473	9	25°877	11°812	40547	9	13°852	23°807	40713	19	7°229	16°888
				40474	12	0°546	12°156	40548	11	13°973	23°524	40714	6	10°002	16°719
				40475	10	7°907	12°975	40549	18	20°239	23°149	40715	13	10°301	16°835
				40476	6	14°892	12°606	40550	7	24°022	23°402	40716	12	14°694	16°579
				40477	15	2°118	13°434	40551	11	5°749	24°178	40717	11	19°829	16°924
				40478	13	3°949	13°956	40552	5	18°187	24°901	40718	12	0°574	18°251
				40479	14	11°266	13°102	40553	17	18°526	24°778	40719	19	11°396	18°048
				40480	15	16°756	13°504	40554	18	19°249	24°792	40720	15	13°260	18°473
				40481	19	17°049	13°248	40555	5	10°611	25°767	40721	10	13°323	18°769
				40482	13	17°418	13°180	40556	11	18°660	25°755	40722*	23	19°264	18°158
				40483	11	19°957	13°964	40557	8	19°207	25°647	40723*	28	25°863	18°899
				40484	22	22°462	13°547					40724*	47	2°485	19°788
				40485*	34	25°521	13°760					40725	15	3°268	19°489
				40486	12	9°655	14°714					40726*	51	3°477	19°418
				40487*	26	11°933	14°847					40727	8	4°859	19°114
				40488	5	13°381	14°584					40728	14	7°673	19°252
				40489	12	17°146	14°668					40729	10	12°083	19°309
				40490	6	21°253	14°644					40730	14	12°469	19°052

R. A. 12^h 20^m

Plate 2800; 1909 Dec. 20.

Provisional Constants.

A B C
 -00030 -00788 +3323

D E F
 +00707 -00024 -2584

Mag. = 15.6 - 1.25√d

No.	d	x	y
40601	8	7°056	0°482
40602	12	8°174	0°217
40603	21	8°191	0°163
40604	12	8°873	0°596
40605*	37	9°356	0°616
40606	14	9°587	0°284
40607	13	13°316	0°648
40608	21	14°263	0°952
40609	12	16°877	0°176
40610	7	0°897	1°364
40611	8	9°094	1°983
40612*	29	11°316	1°738
40613	16	13°530	1°959
40614	10	13°855	1°787
40615	10	0°847	2°654
40616	13	4°341	2°714
40617	7	6°398	2°653
40618	5	11°133	2°679
40619	8	16°740	2°183
40620	17	16°884	2°274
40621	9	21°031	2°391
40622	16	22°439	2°367
40623	15	23°063	2°083
40624	11	23°790	2°800
40625	15	5°107	3°782
40626	16	14°001	3°690
40627	18	12°937	4°103

40731*	33	21'916	19'971	40819	9	9'201	4'076	40893*	76	7'864	14'274	41057	7	24'582	12'086
40732	5	24'701	19'757	40820	10	12'806	4'659	40894	8	9'012	14'227	41058	8	10'700	13'558
40733	16	3'148	20'617	40821	9	12'998	4'632	40895*	29	9'332	14'915	41059	7	10'868	13'335
40734*	15	3'286	20'701	40822	19	18'906	4'231	40896	22	9'334	14'860	41060	8	10'904	13'327
40735*	22	5'209	20'721	40823	12	20'755	4'263	40897	11	9'534	14'937	41061*	15	18'665	13'531
40736	20	7'349	20'257	40824	17	7'108	5'122	40898	13	14'568	14'748	41062*	19	22'179	13'660
40737	5	9'609	20'412	40825	10	10'687	5'336	40899	14	17'426	14'495	41063	8	5'395	14'306
40738	6	14'184	20'880	40826	24	12'438	5'098	40900	13	5'489	15'141	41064	5	7'744	14'681
40739	5	14'625	20'863	40827*	35	13'111	5'591	40901	10	9'975	15'872	41065	18	8'094	14'356
40740	6	16'526	20'251	40828	20	14'296	5'851	40902	6	12'980	15'491	41066	17	14'742	14'303
40741	9	20'856	20'264	40829	18	14'898	5'520	40903	12	16'234	15'541	41067*	26	19'111	14'668
40742	15	20'946	20'694	40830	14	15'411	5'180	40904	23	17'091	15'548	41068	21	25'804	14'875
40743	6	3'615	21'294	40831	15	18'153	5'954	40905	8	9'002	16'863	41069	10	4'012	15'680
40744	12	4'764	21'055	40832	13	22'264	5'243	40906	8	11'811	16'926	41070	10	4'139	15'867
40745	21	6'066	21'131	40833	17	3'822	6'914	40907	7	17'586	16'816	41071*	24	10'593	15'063
40746	12	6'148	21'549	40834	23	5'635	6'385	40908	6	17'592	16'848	41072*	19	19'398	16'425
40747	25	11'260	21'767	40835	14	13'076	6'190	40909	19	21'251	16'847	41073*	23	22'281	16'482
40748	10	11'566	21'026	40836	23	15'367	6'803	40910	23	5'817	17'294	41074	4	14'912	17'271
40749	13	21'205	21'921	40837	6	15'555	6'271	40911	23	6'265	17'555	41075	18	19'107	17'267
40750	9	22'611	21'328	40838	11	16'171	6'531	40912	10	9'671	17'796	41076	6	10'666	18'231
40751	13	1'597	22'262	40839	17	16'848	6'356	40913	15	11'105	17'033	41077	8	16'623	18'638
40752	11	12'443	22'596	40840	14	17'037	6'094	40914	19	15'618	17'167	41078	17	19'140	18'038
40753	12	16'916	22'649	40841	10	22'118	6'608	40915	11	18'852	17'865	41079	14	22'020	18'505
40754	12	6'139	23'261	40842	12	0'124	7'174	40916	10	3'786	18'997	41080	10	22'262	18'847
40755	9	22'600	23'544	40843	6	1'367	7'453	40917*	26	4'245	18'756	41081	8	24'829	18'832
40756	12	24'444	23'137	40844	6	5'977	7'053	40918	11	11'263	18'281	41082	4	25'101	18'704
40757	12	7'937	24'336	40845	7	12'548	7'748	40919	8	18'169	18'270	41083*	23	25'467	18'496
40758	9	12'628	24'064	40846	12	15'146	7'619	40920*	35	0'316	19'894	41084	5	3'025	19'833
40759	13	14'306	24'155	40847	23	15'720	7'035	40921	6	3'102	19'630	41085*	20	10'526	19'139
40760	12	15'190	24'271	40848	13	21'418	7'821	40922	23	5'756	19'800	41086	7	17'432	19'185
40761	18	6'612	25'429	40849	7	23'922	7'843	40923	8	6'812	19'334	41087*	28	3'199	20'062
40762	10	6'916	25'231	40850	9	1'012	8'170	40924	7	11'149	19'881	41088*	19	6'578	20'261
40763	12	14'138	25'121	40851	21	1'874	8'378	40925	22	7'806	20'238	41089	8	24'933	20'104
R. A. 12^h 28^m Plate 2798; 1909 Dec. 20. <i>Provisional Constants.</i> A B C -00047 -00541 +3269 D E F +00510 -00070 -2066 Mag. = 15.8 - 1.25 √d															
No.	d	x	y	No.	d	x	y	No.	d	x	y	No.	d	x	y
40801	14	11'307	0'861	40875	7	2'861	12'302	40949*	43	21'457	24'619	41039	11	16'401	9'808
40802	15	11'718	0'579	40876	6	7'979	12'487	40950	9	4'441	25'981	41040	16	17'063	9'755
40803*	50	12'646	0'509	40877	7	9'043	12'464	40951	12	8'622	25'753	41041	17	21'367	9'820
40804	12	16'694	0'517	40878	8	14'226	12'637	40952	16	15'746	25'592	41042	8	5'365	10'694
40805	22	17'206	0'950	40879	12	14'572	12'214	40953*	23	21'632	25'635	41043	14	7'432	10'094
40806	20	21'133	0'746	40880*	41	14'764	12'866					41044	14	16'154	10'676
40807	11	1'159	1'985	40881	11	16'036	12'075					41045*	29	18'758	10'947
40808	9	8'290	1'774	40882	6	22'388	12'419					41046	6	21'236	10'308
40809	10	17'342	1'236	40883	16	23'056	12'881					41047*	17	7'945	11'786
40810	6	23'625	1'365	40884	7	25'314	12'669					41048	19	8'779	11'055
40811	7	24'177	1'267	40885	13	3'803	13'441					41049	12	14'639	11'109
40812	10	0'538	2'277	40886*	27	4'243	13'719					41050	8	16'528	11'160
40813	7	1'897	2'689	40887	18	8'913	13'840					41051	7	18'097	11'873
40814	11	11'366	3'922	40888	9	9'554	13'890					41052	8	21'441	11'442
40815	9	12'544	3'345	40889	12	11'454	13'719					41053	11	0'976	12'591
40816*	34	23'534	3'146	40890*	33	18'451	13'683					41054*	30	7'275	12'062
40817	12	5'314	4'837	40891	28	20'707	13'154					41055	6	17'852	12'748
40818*	52	8'005	4'737	40892*	29	5'105	14'046					41056	12	19'501	12'665

R. A. 12^h 44^m

Plate 2823; 1910 Mar. 29.

Provisional Constants.

A	B	C
-00047	-00359	+3022

D	E	F
+00320	-00008	-2237

Mag. = 16.2 - 1.25 \sqrt{d}

No.	d	x	y
41201	13	5.218	0.409
41202	7	19.734	0.487
41203	13	0.577	1.816
41204	9	6.236	1.506
41205	23	10.801	1.649
41206	16	15.567	1.267
41207	19	21.331	1.874
41208	23	21.628	1.095
41209	16	0.601	2.717
41210	18	1.600	2.322
41211	17	2.543	2.752
41212*	47	2.693	2.515
41213	12	7.316	2.468
41214	14	11.455	2.749
41215	6	18.356	2.351
41216	13	25.002	2.913
41217	23	5.407	3.310
41218*	32	6.673	3.894
41219	13	7.650	3.644
41220	8	8.510	3.596
41221	14	10.878	3.205
41222	16	12.736	3.994
41223	23	14.879	3.382
41224	14	17.152	3.600
41225	14	18.014	3.695
41226*	34	23.509	3.874
41227	8	24.372	3.332
41228	12	24.974	3.424
41229	12	4.351	4.765
41230	23	8.504	4.214
41231	15	8.857	4.551
41232	12	13.996	4.412
41233	5	14.490	4.435
41234	17	18.015	4.112
41235	23	18.920	4.352
41236	20	24.892	4.431
41237	20	25.773	4.350
41238	18	8.301	5.786
41239	21	9.538	5.509
41240	15	10.042	5.550
41241	18	14.882	5.504
41242	18	14.921	5.361
41243	27	16.119	5.341
41244	11	21.828	5.599
41245	13	22.044	5.127
41246	7	25.214	5.267
41247	11	0.192	6.114
41248	12	4.836	6.357
41249	13	8.275	6.779
41250	19	10.542	6.010
41251	13	14.092	6.929
41252	9	14.243	6.630
41253	14	17.276	6.611
41254	22	1.165	7.764
41255	22	2.888	7.896
41256	19	4.351	7.994

41257	8	6.287	7.689	41331	17	11.724	13.178	41405	19	7.161	20.491
41258	11	10.062	7.646	41332	15	11.894	13.740	41406	11	7.192	20.465
41259	8	11.153	7.654	41333	9	13.667	13.733	41407	30	9.870	20.430
41260	10	17.676	7.793	41334	9	16.829	13.002	41408*	29	11.586	20.997
41261	9	23.500	7.964	41335	18	19.606	13.305	41409	12	12.199	20.286
41262	8	5.783	8.605	41336	7	23.540	13.724	41410	8	14.916	20.136
41263	7	5.814	8.523	41337	23	23.986	13.176	41411	19	15.941	20.165
41264	8	8.437	8.487	41338	19	24.443	13.943	41412	9	16.065	20.799
41265*	49	10.741	8.511	41339	20	25.146	13.080	41413	13	16.153	20.974
41266*	30	10.843	8.183	41340	7	4.024	14.118	41414	18	20.194	20.486
41267	18	11.028	8.295	41341	26	4.437	14.816	41415	8	25.396	20.922
41268	20	19.161	8.474	41342*	33	5.067	14.830	41416	18	5.627	21.180
41269	8	21.423	8.273	41343	10	7.516	14.297	41417	18	17.192	21.136
41270	12	22.760	8.851	41344	5	10.650	14.315	41418	15	21.797	21.152
41271	18	24.857	8.040	41345	19	17.884	14.252	41419*	41	25.084	21.154
41272	14	25.118	8.077	41346	18	20.935	14.341	41420	15	3.035	22.211
41273	21	25.863	8.109	41347	11	21.206	14.869	41421	23	4.155	22.529
41274	13	3.124	9.652	41348	9	23.402	14.352	41422	13	7.453	22.140
41275*	58	6.811	9.179	41349	21	24.843	14.475	41423	28	7.847	22.983
41276	27	6.927	9.698	41350	17	25.189	14.514	41424	8	9.400	22.461
41277	9	8.115	9.470	41351	12	5.387	15.158	41425	15	12.143	22.725
41278	7	9.289	9.532	41352	11	6.086	15.059	41426	11	15.025	22.439
41279	18	9.631	9.343	41353	20	8.610	15.585	41427	7	15.917	22.859
41280	7	10.520	9.269	41354	11	10.739	15.324	41428	22	18.380	22.398
41281	17	11.366	9.867	41355	9	14.057	15.487	41429	23	19.165	22.658
41282	21	13.880	9.768	41356	13	19.883	15.449	41430	22	21.693	22.639
41283*	30	16.434	9.000	41357	13	22.199	15.445	41431	14	7.587	23.724
41284	20	18.029	9.401	41358*	37	0.948	16.495	41432	16	7.873	23.524
41285	10	19.198	9.499	41359	8	1.100	16.872	41433	9	8.868	23.330
41286	8	23.749	9.106	41360*	28	5.140	16.075	41434	18	13.081	23.642
41287	13	24.722	9.786	41361	6	6.498	16.965	41435	16	13.497	23.682
41288*	31	8.798	10.320	41362	13	9.568	16.991	41436	14	18.440	23.631
41289	13	8.859	10.129	41363	7	9.655	16.727	41437	14	19.634	23.513
41290	9	13.198	10.463	41364	8	11.722	16.103	41438*	44	22.133	23.886
41291	8	13.946	10.715	41365	17	12.277	16.119	41439	8	23.697	23.993
41292	11	15.983	10.029	41366*	31	12.278	16.530	41440	21	0.391	24.275
41293	10	16.113	10.354	41367	23	12.280	16.192	41441	16	1.429	24.162
41294	14	16.408	10.361	41368	20	12.495	16.066	41442	12	5.236	24.261
41295	20	17.899	10.078	41369	8	15.036	16.023	41443	9	7.435	24.654
41296	17	22.169	10.350	41370	14	15.300	16.789	41444	13	7.649	24.399
41297	17	23.599	10.923	41371	12	15.676	16.650	41445	8	9.272	24.013
41298	10	25.304	10.387	41372	25	17.200	16.055	41446	21	15.701	24.004
41299	14	25.669	10.344	41373	8	17.925	16.782	41447	11	16.379	24.288
41300	15	0.004	11.472	41374	20	19.880	16.341	41448	19	17.108	24.395
41301	11	1.167	11.226	41375	9	21.550	16.039	41449*	25	21.738	24.886
41302	20	4.663	11.326	41376	12	24.453	16.193	41450*	29	2.125	25.362
41303	7	4.884	11.750	41377	7	6.528	17.223	41451	18	7.789	25.024
41304	19	12.097	11.085	41378	11	6.939	17.827	41452	15	14.849	25.802
41305	12	14.459	11.080	41379	10	8.380	17.361	41453	13	19.284	25.686
41306	27	18.504	11.238	41380*	63	12.999	17.478	41454*	35	20.661	25.508
41307	19	18.861	11.247	41381	19	14.901	17.887	41455	19	21.689	25.724
41308	6	19.049	11.378	41382	15	16.346	17.633	41456	9	21.750	25.661
41309	12	23.079	11.066	41383	10	18.704	17.786	41457	25	23.745	25.453
41310	13	24.840	11.705	41384	16	20.271	17.229	41458	29	24.416	25.866
41311	9	25.301	11.389	41385	9	25.311	17.399				
41312	16	3.162	12.053	41386	21	0.728	18.524				
41313	7	3.211	12.558	41387	18	0.976	18.860				
41314	11	3.586	12.677	41388	20	3.543	18.794				
41315	19	4.897	12.650	41389	17	3.813	18.659				
41316	8	11.922	12.059	41390*	32	4.174	18.443				
41317	14	13.863	12.928	41391	18	12.363	18.445				
41318	13	14.032	12.316	41392	9	14.001	18.910				
41319	18	15.241	12.762	41393	9	14.379	18.434				
41320	13	15.481	12.571	41394	9	15.363	18.290				
41321	9	16.998	12.460	41395	7	22.297	18.093				
41322	7	18.487	12.254	41396	26	9.384	19.261				
41323	11	19.709	12.553	41397	11	10.632	19.689				
41324	7	21.810	12.055	41398	19	10.727	19.528				
41325	16	25.386	12.610	41399	8	17.587	19.347				
41326*	35	0.790	13.674	41400	17	20.067	19.883				
41327	6	1.548	13.789	41401	15	22.746	19.752				
41328	18	5.660	13.350	41402	7	23.334	19.120				
41329	9	6.241	13.533	41403	9	1.556	20.151				
41330	19	8.650	13.629	41404	18	3.673	20.060				

R. A. 12^h 52^m

Plate 1521; 1900 Mar. 20.

Provisional Constants.

A	B	C
-00059	+00363	-2374

D	E	F
-00343	-00036	-4127

Mag. = 16.2 - 1.25 \sqrt{d}

No.	d	x	y
41501	14	14.599	0.277
41502	22	16.555	0.940
41503	16	5.836	1.928
41504*	30	10.499	1.946
41505	28	15.758	1.639
41506	28	7.626	2.763
41507	11	12.798	2.131
41508	12	19.563	2.864
41509*	59	22.929	2.834
41510	12	23.096	2.488
41511	23	24.775	2.591
41512*	40	1.116	3.614
41513	19	6.563	3.424
41514	12	7.977	3.774
41515	13	11.385	3.812
41516	21	13.818	3.695
41517	12	13.936	3.059
41518	20	16.388	3.582
41519*	44	21.620	3.539
41520	14	2.509	4.143
41521	17	3.394	4.041
41522	16	25.284	4.727
41523	8	3.976	5.686
41524	9	10.400	5.332
41525	8	20.907	5.700
41526	8	20.999	5.534
41527	10	6.923	6.125
41528	12	7.678	6.706
41529	12	7.859	6.412
41530	20	21.824	6.924
41531	10	2.554	7.751
41532	8	2.816	7.781
41533	20	3.563	7.797
41534	12	4.692	7.649
41535	10	6.479	7.675
41536	22	7.324	7.626
41537	12	14.185	7.794
41538	13	24.037	7.563
41539	22	8.919	8.270
41540	16	14.359	8.458
41541	22	15.764	8.020
41542	14	21.379	8.978
41543	11	21.717	8.435
41544	21	23.341	8.432
41545	26	24.021	8.497
41546*	28	12.709	9.553
41547	8	13.868	9.299
41548	14	14.313	9.941
41549*	30	17.455	9.101
41550*	30	20.916	9.299
41551	14	1.361	10.654
41552	12	7.359	10.377
41553	10	13.814	10.429
41554	13	14.313	10.726
41555	14	14.844	10.798
41556	10	18.226	10.714

41557	16	20°615	10°470
41558*	51	24°209	10°816
41559	12	6°475	11°835
41560*	40	7°892	11°919
41561*	34	13°167	11°796
41562*	30	17°795	12°900
41563	14	2°956	12°779
41564	10	3°183	12°305
41565	8	7°043	12°134
41566	10	14°461	12°895
41567	30	17°446	12°286
41568	16	2°271	13°656
41569	8	4°296	13°615
41570*	22	15°416	13°185
41571*	30	16°436	13°307
41572	10	17°965	13°546
41573	12	20°233	13°740
41574	12	24°351	13°248
41575	18	2°683	14°182
41576	10	3°029	14°211
41577*	50	4°775	14°739
41578	22	11°737	14°790
41579	13	22°008	14°364
41580*	39	4°924	16°308
41581	11	6°665	16°147
41582	30	8°452	16°588
41583	10	10°345	16°516
41584	11	11°851	16°925
41585	10	24°411	16°017
41586	16	10°066	17°658
41587	14	5°622	18°014
41588	12	12°998	18°161
41589*	48	14°447	18°446
41590	12	22°527	18°510
41591	8	5°759	19°667
41592	30	8°896	19°314
41593	16	13°861	19°194
41594	12	24°849	19°046
41595*	52	3°074	20°850
41596	13	9°248	20°252
41597*	20	21°384	20°300
41598	13	22°210	20°833
41599	12	15°660	21°994
41600	12	6°892	22°335
41601	14	10°045	22°336
41602	26	10°073	22°301
41603	8	16°023	22°459
41604	26	24°934	22°060
41605*	60	0°176	23°646
41606	14	6°402	23°105
41607	20	10°363	23°855
41608	10	19°253	23°410
41609*	30	24°986	23°139
41610	14	5°187	24°071
41611	14	11°341	24°266
41612	22	14°087	24°426
41613	10	16°852	24°621
41614	22	1°822	25°184
41615	30	2°503	25°577
41616	12	12°368	25°644
41617	14	18°288	25°662

R. A. 13^h 0^m

Plate 396; 1893 May 6.

Provisional Constants.

A	B	C
+00774	+00404	-3852

D	E	F
-00370	+00804	-0736

*Mag. = 14.4 - 1.02 √d*For another plate of this region, showing more stars, see end (after 23^h of this section).

No.	d	x	y
41701	22	13°053	0°949
41702*	30	21°695	0°232
41703*	58	6°230	1°365
41704	12	18°439	2°161
41705	16	21°133	2°802
41706*	56	0°914	3°290
41707	19	2°770	3°016
41708	19	6°155	3°989
41709*	33	9°441	3°088
41710	13	25°732	4°841
41711	8	4°687	5°430
41712*	44	8°111	5°313
41713*	32	13°322	5°430
41714	14	13°950	5°208
41715*	29	15°330	5°467
41716	16	19°030	5°441
41717	14	19°954	5°866
41718	20	22°829	5°189
41719	9	14°075	6°417
41720	10	14°396	6°256
41721	7	18°808	6°752
41722*	48	24°982	6°050
41723*	42	20°608	7°406
41724*	36	20°656	7°528
41725	18	21°799	7°502
41726	16	1°408	8°928
41727	20	2°099	8°984
41728	14	4°231	8°855
41729*	39	8°097	9°357
41730*	15	13°627	9°846
41731	10	15°741	9°690
41732	10	21°987	9°508
41733	11	22°425	9°193
41734	10	7°718	10°078
41735	15	10°049	10°306
41736	10	10°278	10°193
41737*	44	2°325	11°319
41738*	8	13°031	11°743
41739*	31	25°415	11°263
41740	14	13°653	12°095
41741	22	15°898	12°427
41742	14	20°678	13°892
41743*	24	24°241	13°308
41744	8	12°060	14°025
41745	15	13°020	14°989
41746	12	15°500	14°827
41747	6	17°161	14°433
41748	8	17°971	14°418
41749	15	11°538	16°259
41750*	32	18°356	16°649
41751	14	21°819	16°723
41752*	20	25°587	16°813
41753	21	4°842	17°072

41754*	58	21°587	17°380
41755	18	14°615	18°387
41756	19	15°127	18°314
41757	8	15°437	18°073
41758	14	15°469	18°160
41759	22	25°214	18°080
41760	19	8°971	19°306
41761	18	9°355	19°975
41762*	26	14°228	19°236
41763*	32	18°591	19°914
41764*	7	13°561	20°435
41765	10	22°341	20°197
41766	10	7°400	21°593
41767*	19	7°905	21°934
41768	8	10°748	21°704
41769	20	13°320	21°462
41770	20	13°614	21°233
41771*	25	16°261	21°663
41772	12	18°093	21°090
41773	20	3°223	22°647
41774	12	14°466	22°823
41775*	8	24°154	22°863
41776*	17	3°293	23°733
41777	10	9°096	23°510
41778	16	10°896	23°505
41779	6	21°387	23°207
41780*	34	5°959	24°986
41781*	31	9°883	24°761
41782	12	16°097	24°633
41783*	14	19°989	24°107
41784	10	23°510	24°840
41785	10	16°252	25°524

R. A. 13^h 8^m

Plate 387; 1893 May 5.

Provisional Constants.

A	B	C
+00791	+00308	-3534

D	E	F
-00324	+00802	-1005

*Mag. = 14.0 - 1.02 √d*For another plate of this region, showing more stars, see end (after 23^h of this section).

No.	d	x	y
41801	12	4°233	1°495
41802*	19	6°390	1°164
41803	20	11°512	1°694
41804	12	21°786	1°117
41805*	38	25°771	2°956
41806	10	5°442	3°875
41807	18	11°752	3°512
41808	10	18°697	3°551
41809	11	19°802	3°394
41810	10	20°393	3°805
41811	14	3°714	4°870
41812	16	15°411	4°234
41813	19	0°816	5°261
41814	10	22°646	5°935
41815*	41	2°981	6°092
41816	10	4°175	6°815

41817	16	12°774	6°454
41818	8	3°652	7°701
41819	11	0°470	9°267
41820	8	16°270	9°714
41821	10	19°047	9°594
41822*	18	22°578	9°727
41823	10	5°944	10°977
41824	10	7°469	10°119
41825	10	8°934	10°923
41826*	48	10°932	10°434
41827	10	23°405	10°236
41828*	25	3°486	11°296
41829	10	5°239	12°373
41830	14	5°969	12°045
41831	19	17°939	12°624
41832*	23	2°345	13°356
41833	10	23°708	13°585
41834*	18	5°466	14°614
41835*	20	10°948	14°668
41836	9	15°912	14°920
41837	12	20°055	14°894
41838	10	21°687	14°446
41839*	18	10°403	15°863
41840	9	20°568	15°236
41841	10	20°705	15°075
41842*	18	3°737	16°843
41843	8	8°849	16°234
41844	11	8°853	16°912
41845*	20	9°334	16°313
41846	10	10°987	17°796
41847	10	17°643	17°174
41848	20	3°381	18°114
41849	10	6°930	18°169
41850	9	13°685	18°090
41851	10	14°138	18°418
41852	10	12°089	19°187
41853	10	3°028	20°642
41854	10	19°230	20°485
41855	6	5°457	21°636
41856	17	9°915	21°855
41857	10	12°441	21°767
41858	12	12°832	21°812
41859*	13	18°775	21°945
41860	14	23°625	21°777
41861*	10	2°388	22°914
41862	10	5°773	22°084
41863	10	6°983	22°716
41864	9	11°916	22°305
41865	18	21°538	22°555
41866	18	22°684	22°400
41867	10	25°064	23°935
41868	10	1°774	24°896
41869*	24	13°666	24°559
41870	10	22°268	24°667
41871	8	5°005	25°375

R. A. 13^h 16^m

Plate 397; 1893 May 6.

Provisional Constants.

A	B	C
+00793	+00258	-3396

D	E	F
-00264	+00790	-0623

*Mag. = 14.9 - 1.02 √d*For another plate of this region, showing more stars, see end (after 23^h of this section).

No.	d	x	y
41901	14	10°642	0°014
41902	13	13°260	0°887
41903	12	17°466	0°666
41904*	32	13°759	1°174
41905	17	14°224	1°926
41906*	36	10°184	2°878
41907*	24	11°601	2°536
41908*	40	3°712	3°036
41909	17	19°759	3°280
41910	8	6°589	4°765
41911	19	10°896	4°493
41912	13	13°191	4°634
41913	21	13°242	4°936
41914	10	21°065	4°115
41915	10	18°519	5°194
41916	32	24°165	5°908
41917*	96	24°746	5°472
41918	9	0°628	6°063
41919	11	8°304	6°495
41920	19	12°741	6°527
41921	13	22°790	6°399
41922	10	5°566	7°561
41923	9	12°267	7°448
41924	12	23°698	7°980
41925*	23	0°616	9°855
41926	8	7°172	9°653
41927	10	18°686	9°807
41928*	14	24°203	9°472
41929	9	1°450	10°354
41930*	27	17°117	10°882
41931	12	9°510	11°710
41932	15	12°057	11°514
41933	14	19°050	11°585
41934*	10	4°128	12°548
41935	9	10°087	12°706
41936*	25	17°687	12°580
41937	10	1°804	13°696
41938	12	12°037	13°771
41939	10	16°111	13°069
41940	8	1°811	14°650
41941	10	5°871	14°179
41942*	45	7°621	14°670
41943	10	12°631	14°555
41944*	38	23°440	14°725
41945*	41	12°494	15°122
41946	10	20°919	15°421
41947	18	23°570	16°437
41948	6	3°283	17°257
41949	15	6°063	17°675
41950	15	6°127	17°863
41951*	65	16°202	17°915
41952*	29	24°019	17°987
41953	10	5°722	18°266

(112)

42331	10	17°969	9°278		42454	8	14°180	15°199	42525*	31	24°563	4°171	42599	13	8°144	20°974
42332	12	21°820	9°418		42455	8	20°061	15°623	42526	16	16°420	5°222	42600	18	8°742	20°299
42333*	14	3°383	10°105	R. A. 13^h 56^m	42456	10	7°518	16°859	42527	14	18°310	5°911	42601	8	9°285	20°261
42334	16	3°445	10°869	Plate 389; 1893 May 5.	42457*	21	9°664	16°201	42528	12	25°461	5°964	42602	13	11°821	20°084
42335	16	3°775	10°554	<i>Provisional Constants.</i>	42458*	12	10°843	16°825	42529	8	25°753	5°036	42603	7	25°423	20°357
42336	13	5°534	10°792		42459	9	19°953	16°949	42530	15	5°386	6°316	42604	9	12°184	21°412
42337	11	6°855	10°069		42460	10	23°130	16°065	42531	7	7°620	6°517	42605	8	12°933	21°673
42338	14	18°100	10°219		42461*	16	3°073	17°901	42532	13	8°009	6°205	42606	15	13°924	21°571
42339	12	1°251	11°886		42462*	20	5°471	17°929	42533*	29	8°521	6°143	42607*	25	24°977	21°709
42340*	24	1°745	11°350		42463	11	8°044	17°731	42534	14	24°917	6°542	42608	5	10°479	22°613
42341	12	2°149	11°622		42464	9	16°079	17°030	42535	6	0°560	7°949	42609	25	20°359	22°163
42342	10	6°731	11°179		42465	8	17°851	17°397	42536	21	2°493	7°395	42610	26	23°856	22°459
42343	10	9°787	11°033		42466*	22	4°305	18°822	42537	10	6°644	7°774	42611*	33	15°377	23°684
42344	6	5°103	12°269		42467	10	10°912	18°462	42538	23	7°806	7°389	42612	7	8°358	24°213
42345*	19	18°202	12°561		42468	8	9°278	19°966	42539	7	12°961	7°371	42613	6	9°723	24°193
42346	12	24°279	12°755		42469	8	17°799	19°617	42540	14	20°546	7°814	42614	22	19°701	24°052
42347	12	7°571	13°600		42470	7	18°368	19°472	42541	7	22°534	7°550	42615	10	5°117	25°075
42348	14	11°330	13°213		42471	10	3°047	20°035	42542	6	9°815	8°644	42616	13	7°210	25°509
42349	10	17°730	13°192		42472	10	17°165	20°530	42543	21	14°290	8°144	42617	6	11°381	25°896
42350*	20	21°886	13°240		42473	9	8°061	21°105	42544*	23	19°520	8°853	42618	12	11°851	25°363
42351	12	4°428	14°251		42474	9	9°639	21°721	42545	6	25°702	8°842				
42352	12	13°379	14°281		42475*	12	10°475	21°662	42546*	22	3°091	9°857				
42353	10	14°743	14°727		42476*	10	12°581	21°356	42547	5	3°428	9°331				
42354	11	21°698	14°788		42477*	12	11°011	22°744	42548	7	19°667	9°165				
42355*	14	22°840	14°372		42478*	18	14°467	23°111	42549	5	24°442	9°732				
42356*	14	8°133	15°427		42479	11	12°521	24°550	42550	6	5°808	10°669				
42357*	25	9°026	15°344		42480	12	17°512	24°276	42551	17	5°943	10°913				
42358*	22	10°537	15°224						42552	10	6°886	10°159				
42359	14	13°584	15°150						42553*	43	12°437	10°170				
42360*	13	25°131	15°066						42554	11	15°300	10°751				
42361	16	7°914	16°406						42555	15	18°713	10°527				
42362	10	13°191	16°611						42556	8	0°880	11°211				
42363	13	21°802	16°371						42557	11	6°598	11°810				
42364	11	5°850	17°330						42558	21	8°618	11°530				
42365	11	6°482	17°724						42559	14	18°927	11°925				
42366	10	15°143	17°359						42560	13	1°693	12°483				
42367*	17	24°873	17°990						42561	8	5°092	12°455				
42368	12	11°934	18°319						42562	6	5°737	12°726				
42369*	12	12°981	18°882						42563	9	11°456	12°775				
42370*	16	14°570	18°339						42564*	14	12°864	12°944				
42371	10	16°499	18°960						42565	15	14°903	12°080				
42372	13	19°015	18°546						42566	5	24°558	12°768				
42373*	34	10°824	19°411						42567*	25	24°884	12°807				
42374*	18	12°482	19°310						42568	14	6°586	13°774				
42375	8	19°110	19°091						42569	12	11°304	13°307				
42376	12	24°825	20°123						42570	6	13°659	13°111				
42377*	25	1°861	21°280						42571	9	15°381	13°420				
42378	14	1°902	21°709						42572	23	20°583	13°172				
42379*	16	7°642	21°902						42573	10	22°975	13°513				
42380*	17	17°500	21°598						42574	5	24°973	13°856				
42381*	24	17°723	21°453						42575	11	15°244	14°932				
42382	10	16°971	22°790						42576	7	24°288	14°408				
42383	14	18°241	22°658						42577*	21	24°551	14°576				
42384	10	14°342	23°757						42578	7	1°802	15°780				
42385	10	18°008	23°597						42579*	15	7°946	15°044				
42386	14	18°909	23°318						42580*	27	11°298	15°059				
									42581	15	13°323	15°994				
									42582	6	1°554	16°580				
									42583	11	9°700	16°677				
									42584	5	11°726	16°169				
									42585	12	13°573	16°461				
									42586	10	13°904	16°019				
									42587	5	25°045	16°256				
									42588	5	13°396	17°441				
									42589	10	23°308	17°988				
									42590	18	7°687	18°750				
									42591	5	13°215	18°574				
									42592	6	24°869	18°445				
									42593*	13	6°087	19°840				
									42594	6	6°236	19°855				
									42595	24	9°752	19°503				
									42596	16	16°136	19°239				
									42597*	80	18°270	19°494				
									42598	6	21°181	19°922				

42732	17	17.480	5.171	42806	10	18.892	16.190	42957	7	18.677	6.088	43031	17	15.908	12.593
42733	19	18.121	5.182	42807	8	1.335	17.918	42958	8	19.855	6.544	43032	13	16.389	12.277
42734	20	2.151	6.660	42808	8	2.781	17.391	42959	5	21.649	6.889	43033	24	16.888	12.566
42735	20	2.681	6.068	42809	10	8.575	17.379	42960	31	24.600	6.951	43034	14	20.374	12.719
42736	8	2.786	6.288	42810	10	9.680	17.031	42961	27	3.072	7.594	43035	11	22.029	12.541
42737	16	10.059	6.170	42811	10	9.840	17.701	42962*	44	4.180	7.989	43036	23	22.751	12.848
42738	6	16.659	6.360	42812	12	13.536	17.351	42963	31	8.331	7.343	43037*	48	23.585	12.357
42739*	32	17.281	6.247	42813	8	16.169	17.281	42964	16	9.025	7.086	43038	14	23.780	12.490
42740	19	23.146	6.321	42814*	22	24.028	17.110	42965*	39	9.028	7.583	43039	8	4.067	13.368
42741	20	24.479	6.403	42815	10	0.840	18.147	42966	5	9.385	7.621	43040	15	6.151	13.577
42742	13	4.820	7.650	42816	12	2.415	18.561	42967	17	9.630	7.211	43041	13	6.497	13.115
42743	8	6.720	7.730	42817*	22	8.102	18.521	42968	8	10.778	7.106	43042	23	7.613	13.181
42744*	26	9.285	7.188	42818	14	15.110	18.911	42969	18	10.950	7.020	43043	5	7.843	13.306
42745	8	14.060	7.739	42819	12	18.568	18.510	42970	13	13.051	7.199	43044	15	9.889	13.853
42746	7	18.183	7.346	42820	21	21.022	18.180	42971	11	15.802	7.506	43045	8	10.753	13.115
42747	20	19.160	7.476	42821	9	3.159	19.575	42972	10	18.371	7.764	43046	28	14.053	13.544
42748	20	19.213	7.420	42822	8	7.432	19.330	42973	13	20.023	7.987	43047	7	14.657	13.925
42749	22	24.017	7.390	42823	8	9.119	19.079	42974	9	22.255	7.543	43048	8	15.906	13.116
42750*	42	25.120	7.795	42824	12	12.500	19.482	42975	6	22.320	7.886	43049	7	17.910	13.972
42751	16	13.017	8.461	42825	20	23.797	19.627	42976	19	24.151	7.699	43050	19	18.295	13.172
42752*	34	13.535	8.616	42826	10	3.021	20.460	42977	8	25.818	7.252	43051	16	19.783	13.689
42753*	22	20.095	8.160	42827*	12	8.122	20.391	42978	22	0.001	8.517	43052	6	22.714	13.357
42754	18	20.946	8.288	42828	8	9.880	20.701	42979	8	1.909	8.922	43053	26	23.466	13.933
42755	7	22.750	8.947	42829*	32	2.610	21.826	42980	14	2.093	8.819	43054	23	25.214	13.882
42756	10	23.031	8.607	42830	22	6.768	21.574	42981*	31	5.382	8.089	43055	6	25.827	13.745
42757	12	1.763	9.861	42831	9	15.760	21.520	42982	5	6.083	8.594	43056	19	25.898	13.655
42758	7	3.020	9.843	42832	11	15.967	21.831	42983	14	6.729	8.858	43057	15	1.806	14.892
42759	10	3.232	9.888	42833	20	16.981	21.140	42984	20	7.534	8.702	43058	14	3.289	14.686
42760	12	3.465	9.760	42834*	24	18.193	21.905	42985	8	11.535	8.601	43059	19	3.774	14.340
42761	19	9.136	9.088	42835	10	24.549	21.907	42986	6	12.861	8.212	43060	12	4.470	14.078
42762	10	21.580	9.360	42836	9	24.631	21.560	42987	10	13.284	8.440	43061	21	5.749	14.773
42763	12	21.922	9.362	42837*	29	24.822	21.840	42988	17	13.327	8.660	43062	22	7.446	14.248
42764	21	11.130	10.271	42838	8	25.296	21.381	42989	15	13.578	8.714	43063	17	7.604	14.142
42765	8	19.854	10.163	42839	9	0.254	22.741	42990	17	14.623	8.252	43064	14	10.292	14.392
42766	11	3.808	11.314	42840	35	1.511	22.607	42991	10	15.452	8.157	43065	16	10.773	14.631
42767	10	15.361	11.107	42841	9	1.802	22.581	42992	14	16.953	8.413	43066	10	11.147	14.216
42768	11	21.270	11.490	42842	18	7.608	22.520	42993	19	17.201	8.187	43067	14	11.284	14.464
42769	11	1.960	12.894	42843	20	10.182	22.199	42994	8	20.924	8.207	43068	18	14.953	14.537
42770*	32	2.286	12.923	42844	18	11.432	22.327	42995	9	20.998	8.970	43069	8	17.056	14.364
42771	10	2.350	12.902	42845	18	13.008	22.158	42996	8	0.644	9.585	43070	17	19.049	14.916
42772	7	4.330	12.900	42846	20	14.811	22.271	42997	16	0.992	9.583	43071	15	20.594	14.902
42773	11	9.350	12.895	42847	14	19.256	22.531	42998	12	1.811	9.160	43072	15	21.370	14.825
42774	12	11.227	12.558	42848	10	22.310	22.576	42999	13	3.466	9.441	43073	7	22.564	14.000
42775*	28	13.735	12.270	42849	8	1.224	23.735	43000	7	8.276	9.918	43074	9	24.520	14.809
42776*	26	15.689	12.200	42850	9	3.822	23.331	43001	17	9.988	9.949	43075	7	25.449	14.156
42777	10	17.451	12.333	42851	10	10.198	23.242	43002	12	10.898	9.692	43076*	45	2.425	15.342
42778	8	17.574	12.793	42852	9	21.830	23.104	43003*	28	11.469	9.367	43077	7	2.583	15.263
42779	12	22.600	12.450	42853	22	5.019	24.247	43004	9	11.770	9.361	43078	22	4.439	15.009
42780	14	0.390	13.680	42854*	20	8.400	24.080	43005	19	17.486	9.457	43079	9	4.517	15.036
42781	10	2.405	13.973	42855	8	20.551	24.290	43006	7	19.039	9.805	43080	8	7.064	15.578
42782	18	4.160	13.054	42856	16	20.900	24.724	43007	7	21.132	9.110	43081	13	7.387	15.799
42783	18	11.490	13.008	42857	15	23.698	24.281	43008	6	23.822	9.562	43082	11	8.678	15.596
42784	8	17.502	13.862	42858	11	7.171	25.613	43009	6	25.634	9.697	43083	22	9.545	15.350
42785	9	17.760	13.850	42859	9	7.618	25.600	43010	12	7.868	10.776	43084	6	10.658	15.772
42786	10	1.730	14.542	42860	10	11.430	25.821	43011	16	17.729	10.923	43085	13	10.914	15.765
42787*	23	2.000	14.700	42861	20	12.580	25.459	43012	19	0.361	11.722	43086	11	13.062	15.587
42788	11	6.107	14.039	42862*	16	20.060	25.660	43013	7	4.983	11.881	43087*	28	13.208	15.161
42789	11	7.276	14.920	42863	24	21.205	25.960	43014	16	8.024	11.139	43088	20	13.647	15.037
42790*	22	8.340	14.461					43015	7	11.625	11.180	43089	18	14.521	15.831
42791	22	14.300	14.450					43016	9	14.218	11.707	43090	15	16.356	15.295
42792	10	24.169	14.												

43105	22	25°083	16°290	43179	26	8°834	22°166	43309*	46	24°412	1°439	43383	5	24°427	13°432	R. A. 14^h 36^m Plate 2736 ; 1909 Feb. 22. <i>Provisional Constants.</i> A B C -00083 -00344 +3329 D E F +00359 -00062 -3702 Mag. = 15.7 - 1.25√d
43106*	29	3°172	17°317	43180*	71	9°621	22°333	43310	13	3°233	2°492	43384	16	24°698	13°351	
43107	12	6°937	17°741	43181	11	11°997	22°719	43311	9	5°268	2°451	43385	15	13°415	14°146	
43108	20	7°102	17°233	43182	14	12°024	22°476	43312	18	6°769	2°779	43386	15	14°224	14°697	
43109	13	10°560	17°300	43183	14	12°746	22°095	43313	16	11°520	2°953	43387*	26	23°043	14°366	
43110	8	11°080	17°130	43184	6	14°020	22°455	43314	6	18°508	2°979	43388	11	24°015	14°803	
43111	24	11°242	17°346	43185	10	15°996	22°566	43315	7	6°981	3°585	43389	5	1°936	15°172	
43112	12	14°479	17°187	43186	13	16°512	22°847	43316	12	9°194	3°258	43390	8	3°382	15°272	
43113	7	17°827	17°756	43187	6	16°657	22°053	43317	16	14°575	3°298	43391	10	4°398	15°853	
43114	6	18°181	17°060	43188	21	20°091	22°025	43318	15	21°107	3°073	43392	18	4°513	15°381	
43115	5	19°803	17°969	43189	11	20°979	22°084	43319	10	0°450	4°157	43393	13	6°911	15°734	
43116*	23	20°405	17°708	43190	23	5°823	23°863	43320	13	2°963	4°433	43394	22	7°346	15°896	
43117	15	20°511	17°755	43191	23	6°475	23°374	43321	22	13°466	4°998	43395	21	10°657	15°207	
43118*	33	22°793	17°625	43192	14	6°838	23°210	43322	17	16°338	4°441	43396	17	3°419	16°169	
43119	12	23°558	17°489	43193	17	8°143	23°867	43323	8	22°810	4°259	43397	20	4°46	16°827	
43120	30	0°174	18°416	43194	7	10°950	23°846	43324	7	5°523	5°206	43398	14	8°143	16°965	
43121	18	10°553	18°911	43195	13	11°797	23°833	43325	5	7°891	5°484	43399	5	11°729	16°402	
43122	19	10°921	18°847	43196*	29	12°972	23°462	43326	9	21°289	5°777	43400	18	14°762	16°988	
43123	19	11°876	18°010	43197	26	18°007	23°888	43327*	44	23°657	5°766	43401	5	15°038	16°769	
43124	18	13°877	18°194	43198	9	20°299	23°159	43328	24	2°853	6°835	43402*	27	1°141	17°520	
43125	13	14°872	18°831	43199	10	21°246	23°013	43329	17	18°622	6°811	43403	14	7°795	17°169	
43126	13	17°446	18°029	43200	11	21°902	23°127	43330	21	24°939	6°787	43404	8	8°157	17°820	
43127	6	23°503	18°403	43201	10	24°335	23°366	43331	9	2°408	7°587	43405	13	9°304	17°974	
43128	11	24°557	18°605	43202	22	25°476	23°167	43332	13	5°357	7°409	43406	18	9°596	17°506	
43129	28	2°964	19°834	43203	24	0°108	24°968	43333*	25	6°313	7°489	43407	9	11°547	17°953	
43130	6	3°895	19°365	43204	10	1°231	24°186	43334	23	7°270	7°281	43408	8	13°563	17°238	
43131	11	4°212	19°669	43205	7	1°494	24°288	43335	17	19°522	7°190	43409	7	14°340	17°340	
43132	18	5°828	19°488	43206	18	2°903	24°494	43336	17	19°594	7°526	43410	16	14°729	17°446	
43133	7	9°198	19°656	43207	8	3°826	24°474	43337	5	24°450	7°507	43411	14	15°040	17°408	
43134	8	9°217	19°306	43208	14	6°941	24°503	43338	13	6°047	8°331	43412	11	18°714	17°381	
43135	9	10°730	19°389	43209	11	7°237	24°592	43339	12	9°089	8°952	43413*	43	22°536	17°254	
43136	22	16°815	19°828	43210*	60	8°062	24°925	43340	10	11°113	8°250	43414	9	6°281	18°112	
43137	18	16°984	19°853	43211	24	13°124	24°976	43341	13	13°470	8°755	43415*	17	10°164	18°824	
43138	15	22°537	19°684	43212	5	13°163	24°427	43342	7	20°500	8°961	43416*	18	14°603	18°519	
43139	14	23°044	19°049	43213	6	18°656	24°499	43343*	36	22°693	8°602	43417	8	1°652	19°132	
43140	19	23°291	19°241	43214	5	18°897	24°206	43344	13	22°884	8°517	43418*	38	7°889	19°088	
43141	14	24°128	19°334	43215	17	19°356	24°572	43345	12	23°776	8°887	43419	17	16°541	19°394	
43142	6	2°331	20°119	43216	12	20°878	24°510	43346	11	13°698	9°691	43420	14	19°352	19°647	
43143	5	3°779	20°721	43217	14	4°231	25°545	43347	5	13°742	9°351	43421*	23	22°457	19°593	
43144	18	4°198	20°925	43218	7	5°900	25°324	43348	7	21°435	9°905	43422	6	22°699	19°794	
43145	16	4°731	20°510	43219	13	17°953	25°416	43349	9	12°106	10°644	43423	21	0°234	20°586	
43146	14	5°613	20°068	43220	6	20°618	25°172	43350	14	14°835	10°707	43424	11	10°215	20°521	
43147	17	7°210	20°232	43221	18	25°215	25°755	43351*	43	18°385	10°668	43425	9	16°980	20°448	
43148*	30	8°372	20°884					43352*	34	18°627	10°767	43426	10	18°563	20°644	
43149	7	9°084	20°376					43353	11	2°641	11°561	43427	7	19°794	20°072	
43150	14	9°758	20°323					43354	7	4°039	11°511	43428	10	24°467	20°649	
43151	27	10°217	20°112					43355	22	5°784	11°904	43429	16	2°421	21°325	
43152*	39	11°746	20°990					43356	10	6°371	11°106	43430	17	16°553	21°079	
43153	12	13°564	20°754					43357*	22	9°879	11°823	43431	24	19°399	21°112	
43154	8	15°878	20°182					43358*	27	10°521	11°596	43432*	25	5°731	22°066	
43155	21	17°885	20°105					43359	5	10°884	11°438	43433	11	14°931	22°938	
43156	9	21°745	20°866					43360	5	12°700	11°171	43434	13	3°874	23°039	
43157	30	21°862	20°683					43361	15	15°948	11°707	43435	8	7°958	23°093	
43158	6	23°184	20°669					43362	13	18°322	11°760	43436	23	17°110	23°887	
43159	10	5°489	21°484					43363*	27	19°590	11°226	43437*	24	17°757	23°881	
43160	17	5°523	21°173					43364	12	23°470	11°499	43438	6	23°252	23°642	
43161	7	6°273	21°599					43365*	50	25°365	11°532	43439	15	12°699	24°940	
43162	8	7°095	21°477					43366	5	25°942	11°263	43440	13	14°273	24°651	
43163	33	9°353	21°559					43367	14	1°055	12°747	43441	8	14°484	24°373	
43164	9	9°473	21°594					43368*	42	1°886	12°250	43442*	26	16°875	24°288	
43165	10	12°437	21°581					43369	8	5°595	12°672	43443	5	18°193	24°944	
43166	6	15°637	21°718					43370	6	9°693	12°229	43444	12	18°484	24°741	
43167	7	20°738	21°608					43371*	27	10°034	12°258	43445	11	18°689	24°992	
43168	25	24°040	21°439					43372	13	18°284	12°893	43446	9	3°634	25°628	
43169	9	25°591	21°653					43373	5	19°756	12°270	43447	5	6°266	25°624	
43170	5	0°954	22°507					43374	11	23°020	12°958	43448	9	11°429	25°813	
43171	16	1°507	22°801					43375	18	1°778	13°826	43449	13	13°980	25°419	
43172	20	3°736	22°107					43376	17	3°527	13°760	43450	22	20°712	25°024	
43173*	38	4°012	22°037					43377	15	4°210	13°528	43451	12	20°724	25°042	
43174	6	4°219	22°515					43378	5	5°325	13°282					
43175	18	5°296	22°740					43379	16	9°644	13°874					
43176	17	5°861	22°196					43380	8	19°553	13°409					
43177	16	8°330	22°680					43381*	33	20°769	13°636					
43178	5	8°651	22°219					43382	5	20°889	13°697					

R. A. 14^h 28^m

Plate 2735 ; 1909 Feb. 22.

Provisional Constants.

A	B	C
-00005	-00181	+3670

D	E	F
+00180	-00079	-3312

Mag. = 15.9 - 1.25√d

No.	<i>d</i>	<i>x</i>	<i>y</i>
43301	11	20°084	0°799
43302	15	20°344	0°132
43303*	41	20°479	0°179
43304	15	22°094	0°115
43305	10	25°859	0°597
43306	17	11°881	1°777
43307	14	13°215	1°757
43308	15	21°744	1°543

43557	4	22°683	7°110	43631*	28	24°918	14°984	43755	18	14°525	6°432	43829	15	4°645	15°832
43558	5	23°940	7°472	43632*	35	25°896	14°315	43756	9	14°556	6°461	43830	17	6°952	15°644
43559	7	24°075	7°861	43633	17	14°563	15°078	43757	8	15°418	6°420	43831	19	8°243	15°098
43560	19	24°328	7°006	43634	7	14°842	15°831	43758	12	15°988	6°357	43832	26	9°179	15°056
43561*	40	0°833	8°549	43635	7	15°458	15°030	43759	20	17°033	6°546	43833	9	12°562	15°461
43562	12	1°019	8°461	43636	5	21°597	15°436	43760	12	21°905	6°273	43834	19	12°784	15°944
43563	9	1°917	8°821	43637	9	5°774	16°090	43761	6	2°329	7°757	43835	9	16°082	15°140
43564	11	5°253	8°482	43638	10	8°372	16°927	43762	7	5°808	7°899	43836	21	23°063	15°709
43565	9	10°150	8°740	43639	11	9°347	16°435	43763	13	10°337	7°369	43837	13	24°569	15°313
43566	8	10°221	8°256	43640	8	10°280	16°202	43764	12	11°649	7°271	43838	6	4°869	16°933
43567	5	11°521	8°531	43641	10	17°858	16°557	43765	20	12°053	7°640	43839	14	7°078	16°611
43568	8	12°694	8°724	43642*	20	20°029	16°539	43766	9	12°641	7°603	43840	11	10°103	16°579
43569	9	15°310	8°125	43643	8	20°295	16°604	43767	18	12°708	7°025	43841	9	10°921	16°781
43570*	22	16°665	8°251	43644	9	20°586	16°047	43768	8	14°820	7°382	43842	14	13°202	16°556
43571	10	21°973	8°560	43645*	50	0°789	17°203	43769	9	18°499	7°531	43843	14	14°518	16°269
43572	20	6°884	9°739	43646	4	5°492	17°942	43770	13	18°533	7°940	43844	15	18°051	16°872
43573	10	8°887	9°106	43647	8	6°937	17°447	43771	14	20°801	7°961	43845	16	18°424	16°039
43574	8	12°085	9°353	43648*	12	8°374	17°036	43772	17	22°680	7°237	43846	18	23°390	16°061
43575*	18	15°731	9°434	43649	19	12°975	17°714	43773	13	25°826	7°520	43847	9	24°217	16°367
43576	5	16°348	9°768	43650	10	18°756	17°404	43774	12	25°919	7°040	43848	21	4°129	17°470
43577	5	17°728	9°673	43651	12	18°933	17°145	43775	5	0°236	8°485	43849	7	6°083	17°129
43578	5	18°162	9°605	43652*	20	21°006	17°827	43776	10	7°211	8°989	43850	22	9°300	17°320
43579	7	4°377	10°302	43653	18	25°742	17°596	43777	9	10°581	8°400	43851	8	16°847	17°451
43580	6	7°986	10°811	43654	20	11°528	18°334	43778	14	13°512	8°791	43852	9	18°998	17°669
43581	12	8°413	10°509	43655	10	14°206	18°748	43779	28	14°469	8°992	43853	21	1°735	18°848
43582*	18	11°607	10°083	43656	5	15°583	18°153	43780	16	15°753	8°126	43854	17	6°885	18°132
43583	7	13°224	10°621	43657*	15	16°722	18°626	43781	6	15°774	8°677	43855	8	8°171	18°128
43584	6	15°558	10°072	43658	5	18°214	18°556	43782	16	17°987	8°171	43856	11	9°253	18°554
43585*	24	20°377	10°774	43659	7	19°317	18°110	43783	8	24°164	8°538	43857	15	9°582	18°819
43586	15	25°043	10°678	43660	20	23°332	18°942	43784	10	25°326	8°613	43858	13	11°233	18°651
43587	11	1°645	11°439	43661*	25	0°740	19°545	43785	20	5°624	9°603	43859	9	16°244	18°636
43588*	44	3°540	11°445	43662*	27	7°329	19°734	43786	18	9°181	9°221	43860	12	17°275	18°591
43589	8	3°878	11°456	43663	11	8°882	19°987	43787	5	13°719	9°450	43861	6	18°357	18°073
43590	9	4°114	11°171	43664	9	9°317	19°583	43788*	23	14°366	9°605	43862	15	21°591	18°920
43591	10	6°379	11°303	43665	4	10°139	19°774	43789	10	14°943	9°424	43863	21	3°652	19°484
43592	18	7°287	11°040	43666	20	12°284	19°650	43790	17	15°338	9°783	43864	11	5°196	19°369
43593	10	8°141	11°804	43667	8	15°207	19°375	43791	13	19°522	9°502	43865	15	9°098	19°991
43594	9	10°914	11°668	43668	7	17°099	19°474	43792	20	3°334	10°561	43866	16	10°132	19°866
43595	7	18°463	11°893	43669	10	17°845	19°698	43793	10	5°950	10°773	43867	7	12°416	19°824
43596	5	25°053	11°366	43670	6	20°087	19°939	43794*	30	12°005	10°869	43868	11	13°104	19°254
43597	9	1°218	12°901	43671	12	20°248	19°255	43795*	55	13°231	10°044	43869	15	13°407	19°315
43598	13	6°721	12°164	43672	5	21°292	19°258	43796	13	14°220	10°950	43870	19	14°656	19°731
43599	10	6°856	12°513	43673	18	25°239	19°605	43797	12	15°256	10°890	43871*	43	15°558	19°462
43600*	30	8°686	12°978	43674	11	2°762	20°573	43798	11	17°309	10°457	43872	20	16°612	19°744
43601	10	9°632	12°504	43675	10	5°647	20°600	43799	14	19°545	10°087	43873	6	18°537	19°958
43602	7	10°678	12°460	43676	10	7°804	20°634	43800	5	3°351	11°251	43874	7	21°094	19°717
43603	10	10°912	12°161	43677	10	9°555	20°757	43801	9	9°741	11°171	43875	16	22°256	19°776
43604	7	13°007	12°841	43678	9	11°021	20°236	43802	11	10°297	11°070	43876	20	23°129	19°521
43605	7	15°952	12°863	43679	10	12°165	20°025	43803	12	16°908	11°491	43877	5	0°549	20°150
43606*	40	16°838	12°278	43680	13	14°822	20°201	43804	11	18°391	11°156	43878	6	7°890	20°391
43607*	23	18°325	12°174	43681	17	18°652	20°382	43805	9	18°727	11°164	43879	18	8°073	20°495
43608	6	18°392	12°134	43682	10	22°131	20°228	43806	17	19°656	11°578	43880	17	14°389	20°694
43609	6	19°757	12°421	43683	9	11°354	21°646	43807	5	20°154	11°031	43881	9	1°673	21°996
43610	6	24°399	12°974	43684	8	11°545	21°134	43808	17	20°670	11°394	43882	14	13°877	21°347
43611	5	2°626	13°359	43685	7	16°303	21°752	43809	18	22°823	11°495	43883	8	14°321	21°448
43612	15	2°898	13°273	43686	8	21°322	21°200	43810	13	23°437	11°341	43884	14	18°688	21°259
43613	11	4°299	13°406	43687	8	22°107	21°496	43811	23	23°930	11°769	43885	8	18°714	21°418
43614	5	5°154	13°299	43688	20	5°391	22°551	43812	6	2°720	12°866	43886	8	22°709	21°384
43615	8	8°279	13°161	43689	10	6°737	22°784	43813*	9	8°686	12°651	43887	23	5°524	22°803
43616	9	8°377	13°435	43690	11	9°497	22°496	43814*	20	13°570	12°848	43888	18	10°361	22°329
43617	5	9°657	13°887	43691	8	13°246	22°642	43815	18	13°904	12°994	43889	13	12°971	22°478
43618	20	12°116	13°983	43692	10	23°227	22°089	43816*	29	14°311	12°663	43890	21	17°672	22°629
43619	10	14°857	13°224	43693	9	9°081	23°712	43817	11	1°873	13°898	43891	8	17°860	22°495
43620	7	16°351	13°969	43694	9	9°099	23°074	43818	14	11°589	13°699	43892	21	19°963	22°778
43621	10	17°439	13°891	43695	10	9°459	23°241	43819	20	23°850	13°905	43893	5	20°196	22°466
43622	4	21°478	13°196	43696	15	22°750	23°968	43820	8	0°587	14°370	43894	8	22°361	22°656
43623	5	23°237	13°063	43697	11	14°593	25°674	43821*	28	3°269	14°868	43895	16	1°222	23°883
43624	9	23°537	13°994	43698	4	19°272	25°384	43822*	31	4°236	14°187	43896	11	9°257	23°779
43625*	26	1°258	14°309	43699	8	20°967	25°198	43823	8	5°300	14°356	43897*	34	11°739	23°314
43626	10	2°234	14°734	43700	4	22°091	25°022	43824	16	8°645	14°852	43898	16	14°287	23°182
43627	10	20°384	14°053					43825	13	9°504	14°441	43899	14	14°719	23°884
43628	14	21°079	14°154					43826	30	13°609	14°665	43900	19	8°006	24°305
43629*	20	21°628	14°611					43827*	60	17°439	14°293	43901	9	9°201	24°436
43630	11	22°246	14°450					43828*	28	22°495	14°728	43902	9	18°929	24°981

R. A. 14^h 44^m

Plate 2737; 1909 Feb. 22.

Provisional Constants.

A	B	C
-00027	-00457	+4024

D	E	F
+00453	-00102	-3923

Mag. = 15.4 - 1.25 \sqrt{d}

No.	d	x	y
43701	15	5°354	0°463
43702	18	11°220	0°504
43703*	37	14°725	0°376
43704	28	18°274	0°049

43903	22	8°640	25°004
43904	9	10°133	25°698
43905	24	19°457	25°303
43906	19	23°822	25°498

R. A. 14^h 52^m

Plate 1545; 1900 Apr. 20.

Provisional Constants.

A	B	C
-00023	+00484	-5412

D	E	F
-00507	-00070	-4267

Mag. = 15.7 - 1.25√d

No.	d	x	y
44001	12	0°956	0°196
44002	11	2°201	0°956
44003	16	2°215	0°780
44004	9	3°857	0°135
44005	8	5°573	0°084
44006	10	5°772	0°241
44007*	31	7°030	0°293
44008*	40	8°204	0°528
44009	20	12°629	0°173
44010	9	14°730	0°754
44011	6	16°276	0°635
44012	19	0°251	1°813
44013	10	1°071	1°517
44014	9	3°470	1°253
44015	22	11°105	1°055
44016	8	11°294	1°674
44017	9	12°035	1°622
44018	9	14°839	1°817
44019	8	18°766	1°605
44020	20	19°590	1°185
44021	9	21°020	1°263
44022	10	5°395	2°186
44023	6	14°756	2°376
44024	7	19°704	2°215
44025	11	21°670	2°112
44026	19	24°420	2°083
44027	30	25°099	2°530
44028	12	1°022	3°561
44029*	50	1°635	3°129
44030	12	5°250	3°599
44031	10	5°709	3°875
44032	8	8°394	3°753
44033	7	9°418	3°691
44034	10	10°295	3°629
44035	13	14°733	3°094
44036	22	15°235	3°171
44037	10	20°465	3°258
44038	36	25°797	3°431
44039	10	2°291	4°261
44040	9	2°371	4°360
44041	9	6°256	4°086
44042	9	6°579	4°144
44043	8	7°844	4°291
44044	9	13°580	4°394
44045	8	14°941	4°121
44046	10	22°525	4°429
44047	6	22°627	4°930

44048	12	24°348	4°734	44122	17	20°370	13°016
44049	22	24°809	4°261	44123	10	7°171	14°750
44050	20	6°071	5°355	44124	8	10°607	14°411
44051	9	7°538	5°989	44125	10	12°341	14°860
44052	12	9°982	5°550	44126*	21	15°475	14°199
44053	10	14°010	5°270	44127	21	0°570	15°591
44054	15	14°049	5°642	44128	11	0°908	15°936
44055	22	15°446	5°887	44129	11	2°070	15°156
44056	9	19°043	5°842	44130*	31	5°035	15°403
44057	8	20°467	5°388	44131*	31	13°900	15°027
44058	12	23°530	5°109	44132	10	1°745	16°220
44059	10	25°065	5°311	44133	8	11°023	16°846
44060	9	3°211	6°853	44134	9	11°195	16°695
44061	14	6°675	6°681	44135	8	13°535	16°737
44062	8	13°650	6°816	44136	12	14°140	16°280
44063	20	14°227	6°255	44137	7	15°243	16°093
44064	8	15°783	6°784	44138	9	19°967	16°165
44065	8	18°680	6°596	44139	9	20°587	16°941
44066	21	20°807	6°809	44140	8	4°937	17°760
44067	20	21°955	6°045	44141	11	6°464	17°710
44068	11	25°574	6°799	44142	9	6°501	17°084
44069	9	3°131	7°335	44143	14	8°355	17°458
44070	8	4°688	7°371	44144	9	8°531	17°061
44071	9	6°939	7°319	44145	9	11°520	17°406
44072	7	8°026	7°490	44146*	40	19°151	17°847
44073*	22	8°095	7°510	44147	14	19°601	17°331
44074	9	8°740	7°264	44148	9	21°285	17°804
44075	10	15°806	7°440	44149	6	23°050	17°264
44076*	55	19°008	7°308	44150	8	24°429	17°480
44077	10	25°656	7°234	44151	9	25°328	17°146
44078	9	1°496	8°391	44152	8	4°716	18°315
44079	9	2°660	8°440	44153	9	5°090	18°695
44080	8	4°129	8°122	44154	12	5°104	18°470
44081	12	6°250	8°631	44155*	18	8°429	18°126
44082	9	19°590	8°815	44156	9	10°219	18°049
44083	9	21°913	8°931	44157*	45	11°916	18°386
44084	10	22°732	8°550	44158	8	12°674	18°051
44085	10	23°726	8°295	44159	9	14°733	18°850
44086	8	17°311	9°796	44160	9	15°789	18°558
44087	10	18°676	9°454	44161	10	16°081	18°905
44088	8	22°830	9°148	44162	9	17°251	18°134
44089	20	23°186	9°942	44163	9	19°701	18°231
44090	11	23°272	9°007	44164	9	24°009	18°311
44091	10	8°210	10°771	44165	14	0°732	19°401
44092*	55	11°367	10°000	44166	10	2°331	19°229
44093	10	13°301	10°636	44167	12	3°787	19°996
44094	8	20°381	10°059	44168	9	4°115	19°245
44095	7	22°900	10°258	44169	10	9°848	19°985
44096	10	24°824	10°199	44170	10	10°746	19°674
44097	14	0°225	11°381	44171	10	15°541	19°054
44098	10	0°840	11°214	44172	9	20°979	19°710
44099	23	1°341	11°631	44173	12	24°905	19°774
44100	9	8°948	11°380	44174	9	6°118	20°269
44101	8	10°289	11°805	44175	9	11°470	20°420
44102	9	16°207	11°637	44176	9	12°240	20°285
44103	8	19°134	11°329	44177	10	15°244	20°851
44104	8	21°659	11°354	44178	10	17°284	20°141
44105	7	22°458	11°645	44179	9	17°918	20°245
44106	6	22°866	11°760	44180	7	23°806	20°081
44107	9	25°247	11°409	44181	11	6°945	21°153
44108	8	7°495	12°536	44182	9	7°060	21°820
44109	9	8°807	12°641	44183	9	8°096	21°035
44110	21	8°850	12°510	44184	9	8°660	21°745
44111	9	13°952	12°271	44185*	48	15°299	21°183
44112	10	22°603	12°627	44186	9	20°737	21°736
44113	9	23°017	12°751	44187	21	23°791	21°503
44114	8	24°941	12°558	44188	6	3°243	22°155
44115	7	0°570	13°708	44189	9	4°415	22°056
44116	14	1°316	13°767	44190	20	10°018	22°891
44117	17	3°895	13°039	44191	8	11°579	22°414
44118	7	11°861	13°148	44192	11	13°780	22°032
44119	9	12°004	13°506	44193	9	14°796	22°944
44120*	50	16°040	13°384	44194	9	17°062	22°073
44121	12	20°066	13°406	44195	8	18°691	22°346

44196	9	19°538	22°990
44197	10	24°781	22°430
44198	9	25°112	22°421
44199	11	15°149	23°747
44200	9	19°167	23°715
44201	10	4°045	24°502
44202	10	6°556	24°462
44203*	18	6°679	24°287
44204	10	8°228	24°945
44205*	34	9°286	24°305
44206	9	14°018	24°326
44207	9	18°586	24°160
44208	34	24°560	24°210
44209	21	1°574	25°364
44210	10	2°645	25°565
44211	22	3°824	25°022
44212	6	15°457	25°130
44213	20	18°593	25°045

44334	8	1°550	4°607
44335	16	3°372	4°906
44336	23	3°833	4°433
44337	8	8°258	4°599
44338	21	10°446	4°256
44339	11	13°129	4°599
44340	9	15°609	4°253
44341	15	17°791	4°084
44342	7	19°252	4°480
44343	12	23°139	4°907
44344	18	2°557	5°283
44345	6	5°778	5°534
44346	6	7°590	5°867
44347*	29	9°575	5°249
44348	15	11°002	5°802
44349	9	12°598	5°936
44350	18	12°648	5°644
44351	10	14°812	5°611
44352	8	17°161	5°561
44353	16	18°888	5°240
44354	24	0°982	6°226
44355	15	4°606	6°968
44356	7	4°766	6°451
44357	12	8°884	6°360
44358	6	14°082	6°586
44359	8	15°997	6°823
44360	6	17°153	6°875
44361*	26	17°580	6°529
44362	23	22°049	6°839
44363	11	22°079	6°048
44364	6	23°566	6°904
44365	13	4°691	7°400
44366	5	10°621	7°407
44367	17	11°166	7°604
44368	22	20°718	7°907
44369	9	1°772	8°729
44370	8	2°763	8°468
44371	14	13°250	8°494
44372	11	17°469	8°270
44373	10	17°742	8°805
44374	13	21°153	8°034
44375	23	24°990	8°090
44376*	32	25°605	8°146
44377	6	0°951	9°109
44378	14	2°314	9°185
44379	9	6°593	9°172
44380*	27	7°500	9°753
44381	12	8°765	9°454
44382	10	9°498	9°714
44383	14	9°766	9°956
44384	8	12°554	9°941
44385	14	24°169	9°357
44386	8	24°954	9°948
44387	23	2°232	10°120
44388	5	3°046	10°259
44389	8	3°871	10°367
44390	5	12°649	10°132
44391	13	13°774	10°528
44392	21	16°226	10°582
44393	6	23°450	10°201
44394	5	0°709	11°534
44395	7	4°297	11°575
44396	6	4°470	11°784
44397	10	12°061	11°215
44398	16	12°480	11°858
44399	9	12°891	1

44408	20	8.801	12.716	44482	12	8.953	19.367	44657	9	18.789	7.546	44731	16	9.840	15.035
44409	13	8.876	12.224	44483	19	10.036	19.289	44658	14	19.243	7.361	44732	11	10.153	15.120
44410*	30	14.332	12.980	44484	21	11.599	19.778	44659	8	21.418	7.758	44733	14	11.870	15.625
44411	18	17.157	12.712	44485	13	12.534	19.703	44660	22	25.640	7.860	44734	6	14.173	15.293
44412	19	18.738	12.323	44486	11	14.311	19.468	44661	6	3.948	8.682	44735	18	18.781	15.115
44413	17	20.753	12.249	44487	18	17.372	19.494	44662	9	9.059	8.381	44736	18	21.930	15.664
44414	5	5.181	13.401	44488	12	22.549	19.685	44663	6	10.790	8.365	44737	14	3.186	16.361
44415	7	10.630	13.555	44489	14	23.040	19.370	44664*	32	11.250	8.016	44738	21	8.825	16.966
44416	16	14.757	13.719	44490	5	2.890	20.250	44665	16	13.074	8.739	44739	18	9.063	16.766
44417	8	17.867	13.816	44491	11	7.996	20.951	44666	8	14.475	8.247	44740	11	10.218	16.796
44418	10	18.093	13.704	44492	14	8.045	20.764	44667	7	20.570	8.025	44741	8	11.200	16.767
44419	12	18.822	13.021	44493	17	9.398	20.475	44668	15	2.337	9.209	44742	14	11.204	16.411
44420	7	22.573	13.468	44494	7	10.847	20.934	44669	8	3.129	9.791	44743	17	11.357	16.734
44421	17	5.852	14.636	44495	7	10.861	20.612	44670	16	4.796	9.137	44744	16	12.278	16.172
44422	6	9.363	14.505	44496	12	14.060	20.997	44671	11	5.223	9.568	44745	14	14.298	16.816
44423	8	13.424	14.148	44497	11	15.150	20.254	44672	8	8.155	9.116	44746	12	17.739	16.614
44424	15	14.017	14.940	44498	11	17.542	20.239	44673	7	9.353	9.667	44747	7	19.002	16.049
44425	14	14.221	14.719	44499	6	17.670	20.503	44674	7	10.897	9.980	44748	8	19.152	16.786
44426	13	15.734	14.673	44500	8	18.753	20.332	44675	5	12.918	9.439	44749	12	19.787	16.543
44427	10	16.190	14.805	44501	10	22.400	20.801	44676	12	17.243	9.551	44750	16	20.180	16.489
44428	19	17.034	14.859	44502	22	2.876	21.676	44677	11	21.331	9.800	44751	19	24.212	16.875
44429	9	19.863	14.710	44503	16	7.698	21.916	44678	9	21.469	9.545	44752	5	25.830	16.770
44430	8	5.645	15.509	44504	14	8.370	21.670	44679*	24	22.466	9.719	44753	19	1.226	17.204
44431*	27	6.688	15.943	44505	5	12.888	21.221	44680	6	23.485	9.630	44754	16	4.186	17.866
44432*	31	9.317	15.956	44506	4	14.100	21.762	44681	14	23.893	9.581	44755	15	6.604	17.868
44433	18	12.841	15.450	44507	15	15.933	21.110	44682	20	24.108	9.122	44756	21	7.583	17.646
44434	11	13.515	15.207	44508*	22	16.531	21.059	44683	28	25.190	9.701	44757	16	15.354	17.607
44435	9	14.593	15.721	44509	16	19.211	21.079	44684	6	1.744	10.567	44758	18	17.700	17.015
44436	16	19.067	15.463	44510	12	3.870	22.596	44685	20	9.511	10.743	44759	17	17.802	17.760
44437*	73	21.193	15.844	44511	9	4.202	22.588	44686	15	14.256	10.261	44760	7	19.041	17.767
44438	11	25.039	15.117	44512	11	5.971	22.122	44687	7	16.580	10.854	44761	22	19.382	17.347
44439	10	25.695	15.269	44513	8	9.742	22.562	44688	13	16.849	10.553	44762	8	22.749	17.961
44440	13	6.600	16.712	44514*	20	10.813	22.489	44689	14	17.698	10.439	44763	9	24.310	17.267
44441	7	7.317	16.743	44515	5	11.274	22.451	44690*	24	18.923	10.076	44764	13	25.250	17.934
44442	6	7.327	16.329	44516*	38	14.349	22.899	44691	16	22.765	10.734	44765	18	25.371	17.329
44443	13	18.038	16.109	44517	7	16.783	22.567	44692	12	5.124	11.661	44766	19	1.623	18.044
44444*	30	18.509	16.621	44518	5	19.625	22.782	44693	6	6.073	11.477	44767	7	2.471	18.237
44445	18	21.475	16.058	44519*	23	24.302	22.550	44694	12	6.424	11.630	44768	12	2.924	18.686
44446*	19	21.753	16.436	44520	6	5.300	23.047	44695	13	9.887	11.678	44769*	49	3.020	18.523
44447	14	24.940	16.518	44521	13	12.807	23.667	44696	7	12.580	11.534	44770	8	4.139	18.202
44448	6	3.504	17.651	44522	16	14.161	23.511	44697	10	16.189	11.571	44771	7	4.896	18.021
44449	11	4.401	17.312	44523	12	17.592	23.668	44698	15	18.740	11.298	44772	13	4.945	18.714
44450	8	6.460	17.109	44524	13	21.001	23.785	44699	8	19.461	11.939	44773	16	5.767	18.265
44451*	57	7.137	17.496	44525	10	25.826	23.423	44700	7	19.616	11.570	44774	9	19.592	18.770
44452	10	7.589	17.263	44526	23	3.655	24.377	44701*	22	24.727	11.983	44775	9	20.298	18.138
44453	8	7.720	17.220	44527	11	12.968	24.841	44702	7	5.619	12.479	44776	18	20.414	18.999
44454	7	9.899	17.845	44528	6	13.946	24.383	44703	18	10.483	12.615	44777	16	22.840	18.050
44455	8	14.664	17.790	44529	25	16.946	24.411	44704	6	22.528	12.450	44778	10	0.828	19.554
44456	17	17.356	17.913	44530	17	19.471	24.175	44705	9	4.496	13.851	44779	13	1.316	19.236
44457	12	18.704	17.184	44531	6	24.932	24.368	44706*	41	5.434	13.314	44780	17	7.419	19.578
44458	17	22.971	17.340	44532	8	5.956	25.651	44707	14	6.233	13.161	44781	10	7.763	19.586
44459	7	3.084	18.483	44533	5	9.227	25.304	44708	5	10.741	13.298	44782	15	10.521	19.360
44460	8	5.137	18.420	44534	11	9.742	25.713	44709	9	12.408	13.212	44783	20	10.776	19.565
44461*	19	5.323	18.787	44535	9	10.139	25.381	44710	11	14.639	13.319	44784	18	12.973	19.018
44462	6	6.397	18.923	44536	12	11.318	25.235	44711	7	15.388	13.509	44785	18	15.134	19.966
44463	6	8.246	18.224	44537	9	16.976	25.736	44712	19	18.205	13.646	44786	7	16.249	19.818
44464	7	8.275	18.302	44538	18	23.557	25.215	44713	13	20.428	13.555	44787	5	19.166	19.713
44465	5	8.694	18.951	44539	5	24.751	25.269	44714*	27	23.944	13.482	44788*	20	20.728	19.295
44466	16	8.731	18.972	44540	22	24.901	25.028	44715	13	3.271	14.961	44789*	27	25.125	19.912
44467	13	10.851	18.751					44716	15	5.009	14.053	44790	21	5.146	20.649
44468	8	18.724	18.960					44717	19	7.695	14.744	44791	5	6.350	20.591
44469	8	18.966	18.528					44718	6	8.173	14.266	44792*	25	8.318	20.264
44470	17	20.963	18.130					44719	5	11.512	14.460	44793	12	10.429	20.332
44471	7	23.203	18.389					44720*	30	14.919	14.181	44794*	20	10.588	20.555
44472	17	23.357	18.184					44721	16	15.721	14.066	44795	9	11.131	20.507
44473	7	24.201	18.384					44722	13	16.840	14.650	44796	13	12.187	20.794
44474	11	24.652	18.840					44723	7	19.228	14.967	44797	16	14.062	20.336
44475*	50	24.751	18.680					44724	13	21.021	14.240	44798	14	20.997	20.020
44476	5	25.871	18.368					44725	14	3.932	15.106	44799	11	24.943	20.957
44477	13	25.922	18.032					44726	9	4.284	15.357	44800	10	7.701	21.991
44478	7	0.057	19.894					44727	13	5.145	15.089	44801	5	10.545	21.723
44479	15	3.986	19.943					44728	14	5.560	15.557	44802	7	11.219	21.649
44480	5	4.209	19.849					44729	13	7.284	15.311	44803	11	13.899	21.999
44481	14	8.164	19.350					44730	7	8.978	15.066	44804	12	19.308	21.110

R. A. 15^h 8^m

Plate 2739; 1909 Feb. 22.

Provisional Constants.

A B C
 -0.0065 -0.00984 -0.3918

D E F
 +0.00922 -0.00055 -0.4235

Mag. = 15.8 - 1.25√d

No.	d	x	y
44601	9	8.625	0.752
44602	20	10.731	0.110
44603	6	14.511	0.810
44604	22	20.326	0.365
44605	24	24.442	0.663
44606	15	0.869	1.164
44607	23	9.750	1.546
44608	8	11.086	1.224
44609	5	11.628	1.399
44610	6	12.030	1.635
44611	9	12.057	1.089
44612	5	12.201	1.164
44613	20	13.664	1.414
44614	7	16.599	1.899
44615	13	17.822	1.495
44616	11	21.686	1.602
44617	16	24.645	1.076
44618	19	5.849	2.293
44619	18	7.950	2.272
44620	23	1.666	3.782
44621	23	4.871	3.221
44622	15	9.350	3.397
44623	9	10.584	3.988
44624	26	16.846	3.507
44625	14	17.606	3.940
44626	9	19.379	3.082
44627	7	1.258	4.769
44628	13	5.707	4.302
44629	9	14.038	4.996
44630	7	14.968	4.101
44631	10	22.349	4.208
44632	9	0.209	5.920
44633	6	3.628	5.235
44634	27	4.401	5.360
44635	21	10.377	5.254
44636	17	14.016	5.969
44637	16	19.321	5.971
44638	10	24.755	5.195
44639	9	25.511	5.854
44640	10	25.650	5.660
44641	25	0.189	6.712
44642	6	10.149	6.557
44643	8	17.077	6.450
44644	21	19.319	6.089
44645	14	20.300	6.963
44646	13	22.788	6.160
44647	24	3.146	7.932
44648*	31	3.760	7.981
44649	6	7.404	7.984
44650	10	7.769	7.238
44651	17	7.813	7.218
44652	9	9.642	7.616
44653	18	9.856	7.786
44654	9	10.658	7.830
44655	11	13.799	7.537
44656	6	15.541	7.787

44805	20	21°750	21°098	44919	9	19°251	3°456	44993*	20	13°759	11°936	45067	11	21°666	17°040
44806*	23	2°613	22°400	44920	8	25°369	3°400	44994	12	14°767	11°643	45068	6	22°724	17°907
44807	19	5°464	22°748	44921	16	25°548	3°388	44995	6	15°670	11°874	45069*	28	23°103	17°898
44808*	37	8°023	22°529	44922	16	4°956	4°904	44996	9	20°135	11°192	45070	6	5°065	18°690
44809	14	9°573	22°295	44923	7	5°975	4°362	44997	7	21°988	11°253	45071	8	6°189	18°366
44810	5	17°218	22°139	44924	24	8°420	4°276	44998	13	23°451	11°329	45072	5	8°198	18°911
44811	9	18°227	22°313	44925	6	14°383	4°865	44999	13	24°054	11°434	45073	14	14°933	18°152
44812	18	21°470	22°220	44926	18	21°303	4°964	45000	5	4°560	12°895	45074	6	15°260	18°892
44813	13	4°149	23°257	44927	19	25°785	4°592	45001	18	7°855	12°623	45075	9	20°409	18°446
44814	6	4°558	23°416	44928	7	3°630	5°647	45002	13	10°354	12°664	45076	13	20°506	18°841
44815	22	5°893	23°119	44929	6	3°767	5°448	45003	11	11°480	12°500	45077	10	21°613	18°530
44816	13	7°034	23°797	44930	16	9°168	5°803	45004	10	12°464	12°476	45078	6	22°809	18°458
44817*	24	8°282	23°560	44931	7	13°332	5°602	45005	12	18°228	12°279	45079*	23	3°440	19°709
44818	9	10°718	23°555	44932	11	14°139	5°477	45006	14	18°543	12°835	45080	6	4°582	19°960
44819	15	13°476	23°331	44933	16	14°147	5°418	45007	8	21°696	12°190	45081*	27	4°648	19°531
44820*	22	15°192	23°345	44934	7	15°049	5°521	45008	17	23°147	12°843	45082	10	8°887	19°530
44821	8	24°998	23°171	44935	7	20°458	5°943	45009*	34	2°170	13°296	45083*	30	9°518	19°381
44822	11	25°273	23°558	44936	13	21°169	5°415	45010	6	4°985	13°577	45084	7	9°629	19°482
44823	24	3°241	24°870	44937	7	22°717	5°732	45011	11	9°294	13°210	45085	9	16°838	19°125
44824	9	3°266	24°211	44938*	28	23°429	5°503	45012	10	11°515	13°044	45086*	48	18°320	19°997
44825	7	11°644	24°160	44939*	31	23°997	5°637	45013	18	12°199	13°449	45087	8	19°922	19°606
44826	10	14°119	24°721	44940	21	5°975	6°556	45014*	25	15°187	13°266	45088	6	23°517	19°805
44827	8	17°274	24°139	44941	10	6°117	6°839	45015	9	7°516	14°650	45089	8	24°418	19°678
44828	21	17°448	24°655	44942	20	7°551	6°340	45016	19	12°041	14°848	45090	20	0°079	20°942
44829	7	18°227	24°799	44943	18	9°983	6°668	45017	6	13°912	14°867	45091	8	3°274	20°756
44830	14	19°034	24°701	44944	5	10°794	6°073	45018	14	18°308	14°526	45092*	21	10°872	20°073
44831	14	20°570	24°139	44945	7	15°649	6°436	45019	12	21°366	14°512	45093	10	13°879	20°479
44832*	64	22°247	24°952	44946	15	21°330	6°379	45020	8	21°560	14°377	45094	8	17°133	20°444
44833	21	1°898	25°074	44947	6	21°419	6°192	45021	8	22°863	14°851	45095	16	20°346	20°499
44834	8	3°092	25°116	44948	20	3°787	7°650	45022	13	23°198	14°649	45096	10	21°149	20°605
44835	15	6°091	25°401	44949	5	6°913	7°723	45023	6	24°567	14°935	45097*	39	22°765	20°522
44836	14	11°969	25°365	44950	9	7°370	7°259	45024	19	0°184	15°505	45098	19	24°080	20°849
44837	7	23°732	25°145	44951	5	12°922	7°879	45025	5	4°837	15°423	45099	6	4°521	21°172
				44952	13	17°596	7°325	45026	6	9°272	15°665	45100	13	8°657	21°728
				44953	15	18°450	7°099	45027	5	9°734	15°479	45101	17	12°068	21°556
				44954	7	20°666	7°459	45028	7	10°423	15°646	45102	17	13°321	21°196
				44955	19	2°271	8°932	45029	11	14°280	15°374	45103	9	14°687	21°412
				44956	8	6°911	8°552	45030	10	14°455	15°065	45104	5	16°019	21°139
				44957	15	10°287	8°976	45031	6	16°011	15°203	45105*	16	17°026	21°866
				44958	8	11°019	8°699	45032	18	19°326	15°834	45106	11	22°210	21°691
				44959	7	12°721	8°757	45033*	20	21°649	15°400	45107	6	24°729	21°356
				44960	13	12°760	8°200	45034	17	22°598	15°008	45108	7	3°358	22°971
				44961	7	13°776	8°899	45035	15	22°736	15°804	45109	12	10°488	22°700
				44962	9	14°618	8°756	45036	21	22°931	15°062	45110	8	22°362	22°119
				44963	13	17°905	8°671	45037	9	23°083	15°173	45111	7	24°585	22°507
				44964	14	19°647	8°487	45038	11	23°489	15°257	45112	11	3°641	23°352
				44965	13	21°743	8°800	45039	16	2°485	16°684	45113	9	9°236	23°026
				44966	9	23°350	8°298	45040	6	4°101	16°558	45114	7	13°860	23°797
				44967*	25	0°639	9°553	45041	25	7°343	16°700	45115	15	15°229	23°788
				44968	10	2°064	9°395	45042	6	7°711	16°991	45116*	29	15°434	23°891
				44969	23	3°362	9°497	45043*	30	9°698	16°163	45117	8	16°067	23°198
				44970	14	6°270	9°299	45044	17	10°020	16°967	45118*	73	0°630	24°789
				44971	7	13°561	9°066	45045	7	10°879	16°966	45119	7	4°528	24°692
				44972	7	15°310	9°460	45046	9	11°151	16°924	45120	12	14°151	24°560
				44973	12	15°897	9°196	45047*	52	15°330	16°557	45121	6	15°199	24°732
				44974*	55	16°618	9°186	45048	8	15°648	16°692	45122	6	18°787	24°689
				44975*	26	18°669	9°656	45049	9	16°526	16°371	45123*	39	18°824	24°560
				44976	5	19°237	9°360	45050	19	18°589	16°014	45124	5	22°691	24°810
				44977	18	19°845	9°439	45051	7	20°447	16°126	45125	18	7°850	25°963
				44978	13	22°140	9°391	45052	5	20°758	16°909	45126*	39	9°706	25°378
				44979	14	0°952	10°562	45053	8	24°560	16°974	45127	10	15°106	25°524
				44980	10	5°626	10°666	45054	10	24°810	16°284	45128	8	19°661	25°713
				44981	7	7°167	10°361	45055	12	1°128	17°879	45129	20	25°570	25°784
				44982	6	11°743	10°600	45056	5	2°586	17°073				
				44983	9	14°647	10°017	45057	8	3°537	17°730				
				44984	6	15°466	10°434	45058	17	3°651	17°123				
				44985	13	17°578	10°430	45059*	19	7°765	17°012				
				44986	8	17°622	10°322	45060	17	12°476	17°437				
				44987	17	18°215	10°502	45061	16	12°870	17°914				
				44988*	21	2°932	11°785	45062	8	13°818	17°729				
				44989	14	4°486	11°050	45063	5	16°752	17°991				
				44990	6	6°868	11°450	45064	7	19°187	17°370				
				44991	17	8°370	11°079	45065	18	19°315	17°787				
				44992	14	11°818	11°070	45066	19	21°589	17°995				

R. A. 15^h 24^m

Plate 426; 1893 June 12.

Provisional Constants.

A	B	C
+00767	+00288	-3922

D	E	F
-00282	+00766	-0956

Mag. = 13.5 - 1.02 √d

No.	d	x	y
45201	10	2.716	0.630
45202	12	6.816	0.585
45203*	20	11.785	0.929
45204	10	11.886	0.045
45205	19	12.504	0.775
45206*	26	12.713	1.243
45207	8	17.278	1.435
45208	19	22.303	1.051
45209	25	24.680	1.966
45210	10	2.273	2.615
45211	11	3.920	2.473
45212	11	10.979	2.215
45213	10	12.570	2.750
45214*	38	17.027	2.815
45215*	40	17.772	2.075
45216	10	2.989	3.445
45217	10	9.425	3.810
45218	7	17.607	3.031
45219	14	21.664	3.993
45220*	26	24.445	3.529
45221	10	3.269	4.653
45222	13	4.651	4.826
45223	10	5.645	4.755
45224*	21	9.286	4.092
45225	10	18.535	4.091
45226	6	24.002	4.804
45227*	26	0.914	5.639
45228*	25	1.489	5.757
45229	8	4.889	5.647
45230	10	5.297	5.455
45231	9	8.855	5.803
45232	9	9.117	5.716
45233	10	15.203	5.266
45234	10	20.100	5.646
45235	19	21.730	5.605
45236	9	3.658	6.504
45237	10	6.019	6.444
45238	8	12.186	6.466
45239	9	16.785	6.935
45240	7	19.153	6.890
45241*	21	23.013	6.000
45242	8	6.385	7.615
45243	9	11.494	7.465
45244	8	5.357	8.918
45245	10	7.474	8.029
45246	8	19.604	8.455
45247	8	25.913	8.185
45248	10	9.085	9.638
45249	8	13.535	9.377
45250	8	13.599	9.034
45251	8	5.806	10.396
45252	10	11.888	10.095
45253*	12	14.355	10.587
45254*	17	20.345	10.455
45255	9	1.103	11.506
45256	8	1.713	11.597

45257	10	9'974	11'470	<div>R. A. 15^h 32^m</div> <div>Plate 2741; 1909 Feb. 22.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-00006 -00362 +3696</div> <div>D E F</div> <div>+00291 -00059 -5871</div> <div>Mag. = 15.9 - 1.25√d</div>	45457	9	5'171	7'901	45531	20	1'636	14'183	45605	4	20'844	21'876
45258	9	13'012	11'683		45458*	30	7'053	7'764	45532	11	1'655	14'640	45606	13	22'493	21'429
45259	12	15'470	11'104		45459	8	8'161	7'792	45533	5	4'523	14'396	45607	6	25'192	21'225
45260	8	22'892	11'006		45460	12	8'356	7'644	45534	10	4'818	14'253	45608	11	1'188	22'757
45261	11	24'366	11'525		45461	11	12'771	7'957	45535	11	9'212	14'278	45609	12	4'872	22'670
45262	8	6'262	12'785		45462	11	15'238	7'976	45536*	22	9'355	14'415	45610	8	6'081	22'511
45263	10	13'886	12'962		45463	8	16'263	7'151	45537*	29	12'916	14'894	45611	18	8'070	22'295
45264	12	19'268	12'380		45464	9	16'655	7'431	45538	11	13'294	14'115	45612	12	8'501	22'868
45265	10	21'055	12'490		45465	8	17'179	7'032	45539	10	22'860	14'271	45613	17	10'060	22'226
45266	11	0'834	13'045		45466	11	17'391	7'978	45540	8	24'582	14'154	45614	5	11'572	22'878
45267	8	5'160	13'224	45467	4	18'137	7'671	45541	13	0'113	15'334	45615	10	12'982	22'382	
45268	10	11'515	13'998	45468	4	18'506	7'050	45542	5	5'121	15'259	45616	11	13'301	22'201	
45269	9	13'469	13'736	45469	20	22'700	7'743	45543	5	10'684	15'735	45617	10	19'116	22'845	
45270	11	19'505	13'557	45470	8	8'278	8'855	45544	6	14'281	15'723	45618	9	19'560	22'738	
45271	8	0'939	14'863	45471	6	8'589	8'420	45545	10	14'586	15'133	45619	11	19'593	22'150	
45272	8	4'938	14'334	45472	8	10'564	8'693	45546	4	5'582	16'499	45620	7	20'459	22'738	
45273	8	6'255	14'349	45473	9	13'137	8'609	45547	10	8'271	16'344	45621	36	0'050	23'910	
45274*	19	6'699	14'274	45474*	22	17'006	8'134	45548*	39	9'334	16'463	45622	4	2'498	23'819	
45275	10	12'445	14'588	45475	11	18'503	8'869	45549	7	9'772	16'247	45623	11	5'970	23'744	
45276	9	14'991	14'628	45476	4	19'465	8'462	45550*	22	14'971	16'711	45624	10	6'689	23'293	
45277	12	22'868	14'714	45477	4	21'403	8'461	45551	10	17'037	16'609	45625	7	8'033	23'882	
45278	10	0'342	15'245	45478	7	23'796	8'351	45552	12	20'724	16'733	45626	8	18'245	23'621	
45279	14	0'680	15'288	45479	11	25'360	8'418	45553	18	22'765	16'202	45627	19	19'148	23'970	
45280*	37	4'288	15'094	45480	5	3'901	9'415	45554	11	25'483	16'894	45628	11	25'654	23'935	
45281	11	4'522	15'580	45481	10	7'150	9'431	45555	7	8'279	17'517	45629	16	0'405	24'624	
45282*	13	12'559	15'507	45482	9	10'092	9'117	45556	10	8'850	17'370	45630	19	4'326	24'604	
45283*	14	12'958	15'500	45483*	20	10'674	9'261	45557	17	13'590	17'652	45631	10	10'343	24'839	
45284	10	20'464	15'195	45484	5	11'045	9'785	45558	9	13'772	17'748	45632	13	16'560	24'478	
45285	10	0'504	16'040	45485	9	14'802	9'178	45559	10	14'543	17'957	45633	9	16'972	24'610	
45286*	11	3'948	16'161	45486	15	15'482	9'293	45560	7	16'210	17'498	45634*	36	17'731	24'027	
45287*	12	8'362	16'191	45487	20	16'424	9'140	45561	9	18'465	17'462	45635	12	18'666	24'664	
45288*	11	12'072	16'099	45488	9	18'430	9'489	45562	10	20'796	17'133	45636	9	21'555	24'076	
45289	7	13'931	16'430	45489	8	18'612	9'547	45563	11	4'133	18'421	45637	9	24'399	24'644	
45290	10	12'353	17'773	45490	16	20'333	9'109	45564	4	4'387	18'722	45638	18	11'551	25'457	
45291	13	15'383	17'762	45491	19	23'100	9'021	45565	11	7'334	18'435	45639	8	12'383	25'993	
45292	8	20'653	17'704	45492	5	1'509	10'916	45566	10	7'916	18'993	45640	4	13'020	25'191	
45293*	22	0'936	18'142	45493	13	1'628	10'506	45567	4	12'747	18'296	45641	20	15'141	25'430	
45294	12	5'027	18'942	45494*	19	10'767	10'789	45568	6	13'934	18'965	45642	18	18'334	25'640	
45295*	40	10'977	18'410	45495	14	14'817	10'643	45569	14	14'777	18'502	45643	20	20'652	25'973	
45296	8	12'331	18'379	45496	9	16'099	10'302	45570	10	16'292	18'803	45644*	46	20'815	25'345	
45297	8	17'512	18'029	45497	16	16'266	10'095	45571*	20	17'437	18'499	45645	12	22'196	25'919	
45298	12	17'860	18'305	45498	10	16'577	10'369	45572	5	17'656	18'118					
45299	11	4'165	19'228	45499	9	17'592	10'717	45573	6	17'722	18'200					
45300	10	8'461	19'894	45500*	40	18'735	10'664	45574	7	17'807	18'006					
45301	7	17'557	19'361	45501	10	21'632	10'501	45575*	18	18'242	18'398					
45302	8	21'341	19'835	45502	15	3'097	11'005	45576*	30	18'356	18'173					
45303*	39	0'667	20'799	45503	6	12'673	11'242	45577	11	19'058	18'187					
45304	9	5'321	20'563	45504	5	16'781	11'376	45578	20	21'470	18'314					
45305	10	8'351	20'950	45505	8	17'382	11'968	45579	5	21'551	18'168					
45306	8	11'663	20'579	45506	14	17'793	11'146	45580	11	23'844	18'512					
45307*	22	14'430	20'998	45507	9	18'050	11'441	45581	10	0'165	19'270					
45308	10	17'514	20'250	45508*	28	18'449	11'081	45582	11	2'824	19'220					
45309	18	18'860	20'943	45509	10	18'861	11'282	45583	11	6'435	19'303					
45310	10	2'000	21'090	45510*	10	21'481	11'841	45584	12	6'512	19'945					
45311	10	14'779	21'786	45511	18	21'503	11'750	45585	10	11'271	19'007					
45312*	23	18'317	21'298	45512	7	11'645	12'196	45586*	29	12'867	19'768					
45313	6	21'469	21'455	45513*	30	11'751	12'142	45587	9	15'155	19'614					
45314	11	8'889	22'536	45514	10	13'886	12'868	45588	8	16'933	19'185					
45315	12	13'505	22'049	45515*	20	14'122	12'585	45589	10	23'774	19'684					
45316	10	13'936	22'164	45516	11	19'010	12'485	45590	4	0'303	20'879					
45317	12	12'595	23'143	45517	7	19'151	12'005	45591	10	2'715	20'545					
45318	8	13'318	23'051	45518	14	19'733	12'717	45592	7	5'584	20'383					
45319	19	15'163	23'874	45519	9	20'126	12'784	45593	11	7'208	20'344					
45320*	28	17'396	23'258	45520	5	25'126	12'564	45594	9	8'167	20'213					
45321	7	22'344	23'33													

45711	17	10'416	2'789	45785	5	4'982	10'314	45859	4	3'792	17'638	46057	10	2'664	7'585
45712	12	10'452	2'407	45786	11	5'038	10'737	45860	10	8'527	17'225	46058	12	6'925	7'890
45713	17	16'524	2'979	45787	6	7'630	10'949	45861	7	9'047	17'006	46059	21	7'125	7'996
45714	13	19'901	2'968	45788	4	12'220	10'272	45862	12	12'413	17'045	46060	20	9'387	7'114
45715	7	23'536	2'284	45789	15	13'200	10'843	45863	14	13'327	17'134	46061	10	9'830	7'619
45716	18	9'436	3'515	45790	10	13'953	10'792	45864	23	13'953	17'183	46062	8	16'715	7'415
45717	14	9'481	3'500	45791*	21	16'938	10'074	45865	7	17'677	17'235	46063	9	19'226	7'773
45718	4	11'148	3'113	45792	7	18'171	10'518	45866	8	18'417	17'980	46064	9	22'045	7'143
45719	11	12'134	3'857	45793*	28	18'584	10'380	45867*	36	20'296	17'453	46065	23	22'234	7'271
45720	5	12'782	3'462	45794	4	19'679	10'208	45868	18	24'903	17'050	46066	16	24'350	7'185
45721	11	17'329	3'887	45795	8	22'428	10'460	45869	16	25'790	17'391	46067	21	6'157	8'004
45722	21	2'972	4'489	45796	11	24'829	10'903	45870	11	2'154	18'668	46068	20	9'743	8'700
45723	16	7'822	4'720	45797	11	5'538	11'382	45871	6	8'294	18'174	46069	24	9'846	8'779
45724	10	11'567	4'073	45798	10	5'557	11'086	45872	10	11'315	18'596	46070	11	10'376	8'541
45725	14	12'145	4'805	45799	8	5'826	11'229	45873	8	12'125	18'927	46071	13	12'425	8'098
45726	8	13'013	4'721	45800	10	9'797	11'073	45874	10	12'189	18'426	46072	12	14'476	8'612
45727	13	13'736	4'773	45801*	17	21'723	11'083	45875	7	14'543	18'424	46073	24	14'954	8'010
45728	7	19'635	4'965	45802	4	21'964	11'685	45876	10	19'789	18'175	46074	10	19'966	8'093
45729	8	23'907	4'709	45803	12	23'621	11'676	45877	10	20'438	18'996	46075	8	21'064	8'164
45730	16	1'890	5'018	45804	4	25'810	11'698	45878	6	2'099	19'842	46076*	40	23'776	8'153
45731	18	4'643	5'229	45805	6	3'353	12'703	45879	5	5'929	19'918	46077	9	0'681	9'795
45732	24	8'429	5'471	45806	8	8'147	12'441	45880	14	16'687	19'834	46078	11	3'300	9'817
45733	9	11'814	5'530	45807	9	10'725	12'516	45881	10	17'582	19'226	46079	6	4'663	9'738
45734	15	13'773	5'913	45808*	23	11'426	12'265	45882	11	24'597	19'009	46080	9	12'452	9'115
45735*	27	16'968	5'587	45809	5	12'295	12'556	45883*	35	0'569	20'814	46081	8	21'116	9'366
45736	5	3'623	6'018	45810*	25	13'169	12'795	45884	4	4'288	20'517	46082	14	25'642	9'819
45737	5	4'882	6'497	45811	13	13'314	12'328	45885	13	10'217	20'849	46083	9	2'252	10'791
45738	10	7'351	6'188	45812*	30	13'989	12'091	45886	8	12'006	20'234	46084*	22	4'127	10'603
45739	11	9'358	6'991	45813*	49	15'163	12'961	45887	8	17'591	20'612	46085	11	7'255	10'839
45740	9	9'916	6'965	45814	11	15'893	12'486	45888	14	23'917	20'677	46086*	50	7'564	10'999
45741	12	10'128	6'816	45815	8	18'138	12'428	45889	9	24'035	20'468	46087	12	13'476	10'113
45742	12	11'856	6'757	45816	7	18'488	12'132	45890	13	0'841	21'606	46088	9	14'471	10'369
45743	11	14'145	6'824	45817*	20	22'704	12'415	45891	9	2'731	21'110	46089	8	14'665	10'413
45744	9	14'642	6'003	45818	13	2'743	13'404	45892	4	3'537	21'365	46090	8	20'782	10'024
45745	7	16'839	6'853	45819	10	6'839	13'592	45893	22	6'021	21'793	46091	11	22'027	10'360
45746	4	16'890	6'831	45820	16	7'400	13'974	45894	8	16'163	21'094	46092	12	24'965	10'716
45747	13	23'837	6'058	45821	8	8'337	13'394	45895	10	16'200	21'388	46093	11	25'017	10'900
45748	6	25'700	6'482	45822	12	11'867	13'109	45896	10	16'537	21'113	46094	10	25'566	10'603
45749	26	0'859	7'915	45823*	23	14'749	13'156	45897	11	19'523	21'881	46095	10	1'065	11'598
45750	15	5'138	7'457	45824	14	16'350	13'531	45898	9	22'291	21'213	46096	18	3'815	11'603
45751	13	8'605	7'334	45825	10	6'223	14'987	45899	4	25'176	21'713	46097	8	12'357	11'266
45752	7	10'914	7'015	45826*	30	9'388	14'569	45900	17	25'323	21'330	46098	14	12'861	11'259
45753	10	13'807	7'240	45827	5	10'743	14'060	45901	14	25'496	21'555	46099	24	13'480	11'295
45754	5	15'083	7'469	45828	9	11'702	14'874	45902*	32	5'167	22'603	46100	14	16'365	11'363
45755	5	16'742	7'815	45829	15	14'433	14'338	45903	11	6'209	22'539	46101*	33	19'861	11'247
45756	12	17'304	7'862	45830	4	15'194	14'448	45904	11	7'016	22'128	46102	8	20'222	11'922
45757	13	17'962	7'231	45831	7	16'006	14'447	45905	9	8'672	22'566	46103	17	20'590	11'065
45758	9	21'500	7'095	45832	11	17'944	14'435	45906*	22	9'662	22'112	46104	11	23'013	11'318
45759	12	25'330	7'709	45833	4	23'679	14'053	45907	9	9'718	22'552	46105	14	24'535	11'361
45760	10	3'532	8'554	45834	18	25'610	14'685	45908	7	12'374	22'948	46106*	19	25'392	11'529
45761	9	9'236	8'816	45835	4	25'704	14'643	45909	7	15'523	22'496	46107*	22	0'170	12'362
45762	8	11'231	8'206	45836	8	12'856	15'191	45910	12	16'417	22'205	46108	6	3'831	12'259
45763	7	11'882	8'760	45837	10	13'958	15'110	45911	12	24'598	22'694	46109	16	3'897	12'769
45764*	31	15'467	8'765	45838*	14	15'222	15'795	45912*	31	24'690	22'632	46110	7	6'407	12'570
45765	6	16'009	8'351	45839	9	16'643	15'241	45913	11	6'316	23'554	46111	22	12'551	12'414
45766	11	18'127	8'475	45840	10	17'684	15'877	45914	7	9'853	23'607	46112	10	15'161	12'578
45767	7	20'619	8'439	45841	8	23'945	15'136	45915	9	16'444	23'973	46113	11	17'145	12'864
45768	28	24'553	8'089	45842	11	24'219	15'574	45916	10	21'473	23'446	46114	19	21'358	12'144
45769	22	25'168	8'068	45843	18	1'041	16'374	45917	7	25'640	23'062	46115	10	22'416	12'802
45770	5	25'963	8'098	45844*	18	5'081	16'910	45918	5	2'792	24'795	46116	11	23'806	12'394
45771	21	1'278	9'187	45845*	28	6'416	16'861	45919	10	4'039	24'068	46117	12	24'528	12'846
45772	5	4'416	9'397	45846	4	7'177	16'942	45920	30	4'404	24'155	46118	15	4'557	13'382
45773	6	6'282	9'634	45847	8	8'024	16'075	45921	20	11'300	24'412	46119	36	8'080	13'777
45774	11	7'907	9'508	45848	7	9'213	16'930	45922*	40	6'268	25'258	46120	21	11'685	13'635
45775	10	9'081	9'915	45849	8	9'888	16'986	45923	11	14'045	25'317	46121	8	12'953	13'640
45776	6	10'012	9'168	45850	10	11'262	16'040	45924	5	14'279	25'223	46122	23	21'262	13'884
45777	6	11'250	9'065	45851	6	11'546	16'737	45925	9	14'461	25'637	46123	10	23'045	13'723
45778*	50	12'824	9'987	45852*	30	12'288	16'022	45926	4	16'080	25'753	46124	21	3'136	14'551
45779	14	13'628	9'276	45853	12	12'702	16'576	45927*	35	23'735	25'599	46125	6	6'137	14'245
45780	9	15'275	9'486	45854	8	15'861	16'274					46126	8	8'531	14'353
45781	10	23'286	9'863	45855	11	17'387	16'657					46127	7	12'897	14'928
45782	11	25'902	9'956	45856	18	23'201	16'388					46128*	29	17'905	14'258
45783	10	4'527	10'417	45857	17	25'853	16'740					46129	11	1'771	15'480
45784	20	4'808	10'096	45858	13	3'768	17'027					46130	8	6'286	15'112

R. A. 15^h 48^m

Plate 1547; 1900 Apr. 20.

Provisional Constants.

A	B	C
-00029	+00856	-6012

D	E	F
-00826	-00017	-3527

Mag. = 16.7 - 1.25 \sqrt{d}

No.	d	x	y	46073	24	14'954	8'010
46001*	51	5'141	0'337	46074	10	19'966	8'093
46002	10	13'062	0'724	46075	8	21'064	8'164
46003	9	17'067	0'591	46076*	40	23'776	8'153
46004	5	17'651	0'293	46077	9	0'681	9'795
46005	35	25'422	0'974	46078	11	3'300	9'817
46006	11	8'963	1'694	46079	6	4'663	9'738
46007	10	9'369	1'051	46080	9	12'452	9'115
46008	14	14'539	1'405	46081	8	21'116	9'366
46009	20	21'385	1'277	46082	14	25'642	9'819
46010	22	21'465	1'164	46083	9	2'252	10'799
46011	11	21'757	1'394	46084*	22	4'127	10'603
46012	20	22'452	1'948	46085	11	7'255	10'839
46013	50	25'727	1'064	46086*	50	7'564	10'999
46014	17	25'817	1'141	46087	12	13'476	10'113
46015	8	21'542	2'917	46088	9	14'471	10'369
46016	21	8'377	3'243	46089	8	14'665	10'413
46017	10	11'619	3'867	46090	8	20'782	10'024
46018	24	11'929	3'766	46091	11	22'027	10'360
46019	30	14'480	3'426	46092	12	24'965	10'716
46020*	30	16'677	3'478	46093	11	25'017	10'900
46021	20	17'881	3'538	46094	10	25'566	10'603
46022	11	17'933	3'284	46095	10	1'065	11'598
46023	9	18'239	3'823	46096	18	3'815	11'603
46024	8	20'615	3'822	46097	8	12'357	11'266
46025	19	24'996	3'577	46098	14	12'861	11'259
46026	8	1'162	4'622	46099	24	13'480	11'295
46027	31	3'826	4'068	46100	14	16'365	11'363
46028	10	8'021	4'451	46101*	33	19'861	11'244
46029	39	10'219	4'522	46102	8	20'222	11'922
46030	30	19'653	4'133	46103	17	20'590	11'065
46031	6	20'899	4'129	46104	11	23'013	11'318
46032	12	1'128	5'977	46105	14	24'535	11'361
46033	9	6'320	5'319	46106*	19	25'392	11'529
46034	9	11'916	5'975	46107*	22	0'170	12'362
46035	10	12'695	5'617	46108	6	3'831	12'259
46036	7	14'873	5'457	46109	16	3'897	12'769
46037	26	18'218	5'924	46110	7	6'467	12'570
46038	8	18'249	5'634	46111	22	12'551	12'414
46039	9	21'601	5'610	46112	10	15'161	12'578
46040*	40	21'798	5'952	46113	11	17'145	12'864
46041	11	21'875	5'803	46114	19	21'358	12'144
46042	14	22'055	5'124	46115	10	22'416	12'802
46043	10	22'576	5'899	46116	11	23'806	12'394
46044	10	23'596	5'834	46117	12	24'528	12'846
46045	32	24'279	5'540	46118	15	4'557	13'382
46046	13	25'828	5'802	46119	36	8'080	13'777
46047	12	5'465	6'652	46120	21	11'685	13'635
46048	10	6'899	6'332	46121	8	12'953	13'640
46049	12	7'125	6'800	46122	23	21'262	13'884
46050	11	11'394	6'629	46123	10	23'045	13'723
46051	20	15'132	6'254	46124	21	3'136	14'551
46052	16	15'370	6'895	46125	6	6'137	14'245
46053	22	24'780	6'803	46126	8	8'531	14'353
46054	12	25'102	6'318	46127	7	12'897	14'928
46055	34	1'899	7'986	46128*	29	17'905	14'258
46056	29	2'513	7'949	46129	11	1'771	15'480
				46130	8	6'286	15'112

46131	30	11'339	15'574	46205	17	23'266	23'047	46338	14	0'673	7'717	46412*	20	4'281	19'515	46517	11	17'818	2'997
46132	14	18'349	15'843	46206*	47	5'843	24'023	46339	11	2'803	7'610	46413	11	7'682	19'146	46518	12	21'239	2'804
46133	10	18'455	15'464	46207	14	6'765	24'682	46340	12	3'235	7'227	46414	10	8'267	19'901	46519	11	23'852	2'799
46134	6	21'129	15'804	46208	8	7'033	24'649	46341	10	7'514	7'294	46415	9	17'326	19'833	46520	9	2'630	3'299
46135	22	25'898	15'073	46209	10	8'219	24'232	46342*	22	12'119	7'727	46416	9	21'696	19'033	46521	11	6'894	3'057
46136	21	0'775	16'320	46210	10	10'706	24'083	46343	12	17'122	7'568	46417*	44	23'578	19'071	46522	8	8'877	3'444
46137	18	2'494	16'937	46211	12	11'632	24'730	46344*	28	22'742	7'362	46418*	24	25'427	19'093	46523	14	14'680	3'704
46138	21	3'437	16'599	46212	13	18'465	24'315	46345*	22	2'238	8'595	46419*	28	25'441	19'184	46524	7	16'234	3'541
46139	9	4'276	16'447	46213*	17	20'635	24'747	46346*	24	6'237	8'975	46420	13	7'895	20'070	46525	8	16'401	3'802
46140	21	4'651	16'826	46214*	36	1'564	25'517	46347	20	6'856	8'837	46421	9	10'092	20'214	46526	20	17'197	3'069
46141*	29	5'410	16'460	46215	16	6'490	25'616	46348	11	7'356	8'565	46422*	20	14'176	20'980	46527	7	19'088	3'992
46142	6	9'085	16'431	46216	16	6'499	25'677	46349	10	12'717	8'300	46423	10	15'531	20'169	46528	6	20'102	3'083
46143	19	18'370	16'779	46217	21	8'916	25'597	46350	9	15'930	8'239	46424	14	20'030	20'428	46529	11	21'149	3'197
46144	21	19'355	16'198	46218	31	16'506	25'517	46351*	14	22'964	8'516	46425*	14	22'255	20'502	46530	13	22'320	3'900
46145	11	19'564	16'248					46352	13	24'789	8'260	46426	10	5'452	21'119	46531	17	23'804	3'078
46146	16	3'391	17'252					46353*	26	15'007	9'697	46427	9	7'704	21'980	46532	9	24'620	3'623
46147	6	6'359	17'718					46354	9	19'068	9'709	46428	9	9'137	21'225	46533	16	0'648	4'267
46148*	42	9'306	17'218					46355	10	0'494	10'836	46429*	24	10'906	21'599	46534	9	2'887	4'190
46149*	41	9'929	17'914					46356	9	4'131	10'257	46430	11	16'293	21'107	46535	8	5'049	4'411
46150	21	9'933	17'952					46357*	12	12'084	10'157	46431	12	7'642	22'796	46536	9	5'298	4'516
46151	22	11'196	17'742					46358*	13	12'668	10'078	46432	8	11'397	22'745	46537	8	10'823	4'108
46152	11	11'197	17'330					46359*	10	15'006	10'208	46433	15	25'850	22'148	46538	18	12'116	4'919
46153	9	12'308	17'824					46360	10	18'816	10'482	46434	10	3'934	23'157	46539	10	12'225	4'564
46154	10	14'444	17'009					46361	9	20'625	10'375	46435*	24	8'897	23'303	46540	9	12'862	4'653
46155	7	21'814	17'616					46362*	10	22'027	10'094	46436	10	10'070	23'754	46541	10	15'176	4'537
46156	14	22'731	17'944					46363	11	3'032	11'823	46437	9	12'646	23'277	46542	8	16'949	4'277
46157	10	22'811	17'266					46364	9	3'456	11'167	46438	10	12'755	23'117	46543	9	16'960	4'282
46158	6	25'124	17'075					46365*	10	3'893	11'986	46439	10	19'594	23'226	46544	13	17'041	4'409
46159	13	2'243	18'903					46366*	25	4'834	11'747	46440	11	6'818	24'110	46545	7	19'678	4'278
46160	11	8'715	18'434					46367	11	5'442	11'453	46441	9	12'587	24'241	46546	6	21'845	4'220
46161*	40	9'741	18'421					46368	12	9'212	11'493	46442	10	22'546	24'260	46547	5	22'847	4'886
46162	9	12'404	18'289					46369*	22	9'351	11'785	46443*	14	6'667	25'581	46548	13	1'159	5'334
46163*	38	13'192	18'292					46370	10	14'253	11'226	46444	15	13'082	25'174	46549	8	2'748	5'194
46164	13	19'281	18'314					46371	9	21'628	11'006	46445	12	13'142	25'060	46550	5	3'970	5'965
46165	18	22'670	18'484					46372	10	2'304	12'871	46446*	15	19'909	25'982	46551	17	11'182	5'560
46166*	52	23'915	18'077					46373	9	18'655	12'813					46552	11	14'041	5'629
46167	10	4'185	19'668					46374	10	22'217	12'873					46553	14	15'412	5'443
46168	30	4'413	19'977					46375	10	24'670	12'884					46554	9	16'511	5'522
46169	27	5'233	19'173					46376	9	3'037	13'323					46555	11	17'807	5'797
46170	8	7'285	19'153					46377*	17	10'394	13'365					46556	9	19'469	5'114
46171	12	8'297	19'513					46378	11	10'505	13'721					46557	6	23'562	5'165
46172*	56	10'562	19'819					46379	18	12'278	13'145					46558*	40	0'807	6'336
46173	8	15'649	19'868					46380	12	18'148	13'689					46559	10	2'662	6'445
46174	8	16'936	19'572					46381	11	20'721	13'577					46560	7	4'121	6'982
46175*	29	19'655	19'395					46382*	22	6'894	14'346					46561	12	6'832	6'649
46176	20	25'576	19'319					46383*	14	9'589	14'791					46562	8	7'051	6'692
46177	38	25'706	19'000					46384	12	14'884	14'316					46563	9	15'639	6'927
46178	12	1'610	20'591					46385	18	15'234	14'699					46564	12	18'044	6'804
46179	7	1'720	20'377					46386	9	17'419	14'720					46565	17	18'711	6'792
46180	20	6'680	20'273					46387	8	18'392	14'730					46566	12	21'566	6'731
46181	30	11'175	20'434					46388	14	4'440	15'552					46567*	38	1'328	7'058
46182	16	13'846	20'671					46389	12	5'946	15'699					46568	16	3'362	7'931
46183	10	15'457	20'139					46390	13	5'949	15'290					46569	11	4'494	7'379
46184	12	19'663	20'367					46391	10	8'050	15'794					46570	9	7'450	7'412
46185	11	22'401	20'701					46392*	14	9'645	15'017					46571	10	8'208	7'601
46186	8	24'644	20'650					46393	9	12'238	15'331					46572	19	9'280	7'064
46187	20	2'035	21'202					46394	8	15'123	15'337					46573	19	9'499	7'912
46188	12	3'210	21'423					46395	18	17'362	15'952					46574	10	9'618	7'447
46189	22	5'362	21'837					46396*	20	9'561	16'808					46575	16	10'389	7'973
46190*	48	5'364	21'790					46397	9	22'856	16'469					46576	9	22'411	7'982
46191	8	13'879	21'621					46398	9	23'857	16'874					46577	10	23'189	7'410
46192	8	19'804	21'540					46399	19	8'668	17'557					46578*	15	1'558	8'198
46193	28	20'438	21'999					46400	10	10'858	17'733					46579	18	9'597	8'301
46194	12	22'305	21'105					46401	8	12'252	17'043					46580*	21	10'020	8'875
46195	12	2'347	22'587					46402	12	12'323	17'205					46581	13	13'318	8'149
46196*	36	2'435	22'523					46403	10	13'676	17'277					46582	7	13'444	8'429
46197	10	3'400	22'927					46404	10	1'272	18'479					46583	19	18'025	8'716
46198	12	4'330	22'004					46405*	34	2'468	18'600					46584	10	23'620	8'368
46199	16	10'889	22'906					46406	12	6'401	18'175					46585	9	24'402	8'940
46200	12	16'024	22'709					46407*	17	9'118	18'914					46586	10	24'774	8'696
46201	20	25'330	22'608					46408	8	20'201	18'420					46587	7	25'903	8'711
46202	14	6'258	23'645					46409	11	25'252	18'676					46588*	14	0'636	9'770
46203	12	8'565	23'689					46410	11	1'219	19'020					46589	11	4'149	9'471
46204	12	8'707	23'290					46411											

46591	20	7·267	9·580	46665*	21	21·927	15·335	46739	5	21·261	20·612	46807	11	11·723	0·827	46881	10	19·343	6·383
46592	17	7·471	9·074	46666	10	22·646	15·937	46740*	23	22·047	20·779	46808	10	14·971	0·159	46882	14	21·054	6·978
46593	15	18·283	9·785	46667	10	25·068	15·981	46741	18	4·523	21·694	46809	10	15·391	0·942	46883	10	21·391	6·120
46594	10	0·248	10·677	46668	8	0·528	16·880	46742	11	8·657	21·753	46810	11	17·994	0·484	46884	21	23·660	6·148
46595	11	8·894	10·607	46669	10	1·510	16·087	46743	18	16·868	21·852	46811	22	18·410	0·839	46885	8	24·419	6·357
46596	12	13·000	10·890	46670	13	2·504	16·479	46744*	37	18·462	21·576	46812	8	18·911	0·423	46886	12	0·501	7·670
46597	12	14·339	10·933	46671	16	7·149	16·776	46745*	16	19·536	21·092	46813	10	19·087	0·838	46887	12	3·714	7·060
46598	15	16·798	10·060	46672	9	10·772	16·317	46746	9	23·184	21·278	46814	13	19·660	0·949	46888	11	8·552	7·468
46599	8	17·441	10·482	46673	11	11·755	16·472	46747	14	23·537	21·775	46815	12	21·952	0·690	46889	9	8·629	7·350
46600	11	19·256	10·753	46674	9	12·092	16·362	46748	17	24·863	21·000	46816	25	22·322	0·310	46890*	28	11·820	7·070
46601	10	22·273	10·736	46675	13	13·917	16·045	46749*	18	25·314	21·705	46817	12	23·687	0·790	46891	10	12·727	7·389
46602	6	22·540	10·322	46676	13	14·084	16·966	46750	11	7·600	22·213	46818	10	2·552	1·438	46892	10	16·122	7·957
46603	9	7·138	11·479	46677	9	18·818	16·578	46751	11	8·056	22·814	46819	18	2·927	1·672	46893	8	16·719	7·910
46604	11	8·879	11·521	46678	10	19·129	16·416	46752	6	8·222	22·919	46820	14	3·019	1·103	46894	10	18·831	7·890
46605	6	9·247	11·217	46679	10	20·730	16·830	46753	7	8·933	22·271	46821	10	11·642	1·739	46895	12	20·993	7·689
46606	10	9·391	11·740	46680	7	22·188	16·297	46754	8	10·490	22·336	46822	11	12·260	1·633	46896	10	23·360	7·700
46607	11	9·490	11·048	46681	11	22·197	16·539	46755	13	17·041	22·549	46823	10	12·420	1·000	46897	19	23·450	7·929
46608	9	17·978	11·001	46682	12	8·469	17·029	46756	14	18·276	22·729	46824	9	13·700	1·336	46898	10	23·976	7·932
46609	14	19·529	11·239	46683	11	10·391	17·031	46757	7	21·357	22·992	46825	10	14·851	1·282	46899	11	0·962	8·618
46610	8	19·765	11·815	46684	8	11·785	17·421	46758	8	22·706	22·611	46826	12	15·911	1·834	46900	11	2·123	8·918
46611	11	20·912	11·951	46685	11	13·920	17·988	46759	11	1·258	23·818	46827*	31	19·189	1·270	46901	9	3·255	8·901
46612*	19	22·066	11·430	46686	11	15·333	17·639	46760	8	3·578	23·769	46828	9	19·690	1·213	46902	20	5·540	8·873
46613	12	22·404	11·104	46687	10	16·507	17·301	46761	17	7·676	23·478	46829	10	19·835	1·904	46903	10	8·780	8·500
46614*	15	22·965	11·311	46688	11	18·610	17·804	46762	9	8·090	23·489	46830	22	23·360	1·201	46904	9	10·639	8·322
46615	9	22·984	11·382	46689	12	19·438	17·226	46763	14	8·983	23·309	46831	22	25·204	1·408	46905	11	11·250	8·369
46616	13	0·846	12·523	46690	9	20·135	17·645	46764	19	10·964	23·820	46832	6	5·505	2·320	46906	10	11·363	8·362
46617	16	3·282	12·512	46691	10	0·381	18·639	46765	6	13·081	23·874	46833	20	8·244	2·355	46907	10	12·905	8·528
46618	11	4·724	12·410	46692*	50	2·219	18·697	46766	10	15·047	23·464	46834	18	10·061	2·089	46908	8	14·697	8·394
46619	6	4·739	12·291	46693	11	3·264	18·886	46767	9	17·480	23·305	46835	10	14·821	2·127	46909	12	15·160	8·583
46620	13	8·868	12·439	46694	13	3·658	18·695	46768	9	18·399	23·111	46836	10	15·364	2·892	46910	8	15·651	8·065
46621	15	9·454	12·821	46695	15	3·901	18·254	46769	9	19·932	23·517	46837	8	20·790	2·326	46911	10	18·364	8·961
46622	11	11·461	12·130	46696*	21	4·081	18·664	46770	7	4·809	24·793	46838	12	24·701	2·843	46912	8	19·202	8·367
46623	7	11·750	12·340	46697*	20	4·096	18·756	46771	17	9·352	24·607	46839	16	25·069	2·782	46913	10	19·988	8·402
46624	11	15·922	12·611	46698	9	7·228	18·151	46772	8	10·528	24·784	46840	30	1·000	3·324	46914	20	21·215	8·798
46625	10	17·344	12·646	46699	12	8·380	18·174	46773	8	12·822	24·829	46841	22	1·043	3·046	46915	11	22·530	8·885
46626*	16	18·563	12·448	46700	11	8·539	18·608	46774*	19	14·496	24·649	46842	17	1·835	3·850	46916	16	25·109	8·641
46627	9	19·765	12·379	46701	10	11·648	18·004	46775	8	17·856	24·214	46843	10	6·850	3·699	46917	12	1·762	9·170
46628	17	21·439	12·198	46702	9	14·445	18·663	46776	11	20·989	24·520	46844	9	6·898	3·750	46918	10	5·639	9·901
46629	11	5·993	13·657	46703	13	14·871	18·101	46777	12	9·230	25·978	46845	10	7·400	3·827	46919	11	5·831	9·128
46630*	19	6·870	13·593	46704	12	15·803	18·124	46778	10	10·882	25·548	46846	9	7·631	3·373	46920	10	6·367	9·445
46631	12	9·847	13·011	46705	11	15·879	18·364	46779	19	11·057	25·412	46847	8	7·829	3·019	46921	11	8·311	9·862
46632	9	10·049	13·755	46706	15	19·688	18·838	46780	9	17·392	25·292	46848	16	10·718	3·713	46922	9	8·330	9·150
46633	11	10·363	13·316	46707	12	19·851	18·003	46781	11	17·441	25·031	46849	21	15·029	3·077	46923	10	10·643	9·244
46634	9	12·252	13·999	46708	12	21·314	18·301	46782*	18	18·087	25·164	46850	10	20·428	3·723	46924	10	13·640	9·140
46635	14	12·791	13·420	46709	13	21·858	18·608	46783	12	19·786	25·631	46851	14	23·012	3·690	46925	11	15·250	9·082
46636	18	13·768	13·522	46710*	20	23·238	18·558					46852	9	5·634	4·728	46926	8	16·234	9·658
46637	9	15·458	13·287	46711	8	25·119	18·643					46853	10	9·460	4·300	46927	12	16·445	9·980
46638	5	17·321	13·593	46712	11	3·560	19·469					46854	10	9·894	4·337	46928	10	16·742	9·728
46639	12	20·037	13·859	46713*	19	6·234	19·204					46855*	32	11·310	4·280	46929	25	19·702	9·281
46640	9	20·912	13·532	46714	16	6·366	19·919					46856	20	15·522	4·301	46930	20	24·341	9·416
46641	10	21·001	13·553	46715	7	10·223	19·545					46857	9	16·658	4·078	46931	8	24·489	9·629
46642	8	23·612	13·435	46716	10	11·186	19·887					46858	10	17·450	4·342	46932	9	24·762	9·390
46643	11	1·436	14·607	46717	11	15·027	19·804					46859	6	20·220	4·898	46933	12	24·930	9·052
46644	13	3·556	14·121	46718	10	17·531	19·371					46860	11	21·691	4·860	46934	8	5·111	10·165
46645	9	4·571	14·543	46719	16	20·371	19·178					46861*	32	22·260	4·074	46935	10	9·157	10·423
46646	18	7·612	14·905	46720	7	21·116	19·569					46862	12	0·820	5·420	46936*	32	9·507	10·120
46647	10	7·635	14·829	46721	11	22·031	19·307					46863	21	6·930	5·857	46937	10	9·919	10·593
46648	12	10·562	14·203	46722	8	25·029	19·118					46864	20	7·410	5·550	46938	18	10·178	10·313
46649*	23	11·239	14·668	46723*	20	0·939	20·091					46865	16	8·578	5·463	46939	10	12·658	10·389
46650*	18	12·524	14·510	46724	11	1·777	20·667					46866	10	8·680	5·670	46940	11	17·672	10·955
46651	13	14·673	14·509	46725	14	6·550	20·760					46867	8	8·782	5·201	46941	10	17·824	10·360
46652*	23	15·126	14·905	46726	16	7·839	20·296					46868	10	11·065	5·014	46942	11	19·263	10·770
46653	9	15·918	14·391	46727	18	9·311	20·818					46869	11	13·700	5·210	46943*	22	23·450	10·822
46654	14	18·534	14·747	46728	12	9·521	20·985					46870	9	17·810	5·595	46944*	21	23·674	10·889
46655	13	18·933	14·976	46729	10	10·347	20·847					46871	10	22·400	5·423	46945	20	25·164	10·

46955	11	25°54	11°761	47029	10	14°772	17°864	47103	16	8°000	23°906	47213	27	25°983	2°612	47287*	15	24°917	13°973
46956	9	6°472	12°800	47030	9	21°220	17°190	47104	10	9°570	23°553	47214	11	9°235	3°569	47288	9	1°655	14°987
46957	10	8°580	12°643	47031	14	22°530	17°737	47105	19	9°900	23°684	47215	8	10°156	3°673	47289	12	5°044	14°598
46958	11	11°263	12°874	47032	10	22°753	17°211	47106	10	13°060	23°597	47216*	21	10°509	3°155	47290	10	5°996	14°814
46959	10	13°629	12°485	47033	16	23°420	17°021	47107	8	13°579	23°640	47217	7	13°754	3°210	47291	7	6°839	14°060
46960	11	14°463	12°971	47034	11	24°339	17°130	47108	11	14°190	23°308	47218*	19	15°390	3°742	47292	10	7°975	14°331
46961	10	16°500	12°684	47035*	40	0°860	18°818	47109	8	14°872	23°154	47219	11	18°044	3°422	47293	10	8°275	14°109
46962	9	17°090	12°508	47036	11	1°110	18°737	47110	10	17°906	23°990	47220*	27	0°632	4°335	47294	9	8°402	14°773
46963	10	21°787	12°893	47037	9	2°740	18°858	47111	10	18°690	23°800	47221	9	5°595	4°491	47295	10	18°476	14°960
46964	11	22°200	12°600	47038*	22	5°225	18°774	47112	11	19°985	23°098	47222	11	6°799	4°109	47296	8	18°502	14°665
46965	10	22°637	12°000	47039	20	6°704	18°507	47113	10	22°820	23°532	47223	10	12°171	4°775	47297	10	22°526	14°364
46966	11	23°111	12°489	47040	8	7°679	18°132	47114	12	23°643	23°840	47224*	21	13°054	4°986	47298*	19	25°630	14°026
46967	14	23°409	12°602	47041	8	7°796	18°400	47115	13	23°831	23°750	47225*	30	15°245	4°316	47299	12	25°645	14°531
46968	10	25°417	12°529	47042	20	10°607	18°621	47116	16	2°800	24°772	47226	18	19°546	4°664	47300*	30	3°709	15°549
46969	11	1°097	13°685	47043	10	14°239	18°652	47117	9	7°460	24°849	47227	12	12°019	5°667	47301*	22	8°699	15°500
46970	10	2°249	13°812	47044	10	20°052	18°298	47118	10	8°111	24°049	47228	9	19°702	5°232	47302	10	11°359	15°196
46971	9	4°301	13°177	47045	11	20°583	18°657	47119	10	8°164	24°173	47229	12	22°114	5°596	47303	9	11°955	15°798
46972	10	6°494	13°039	47046	11	22°876	18°902	47120	11	9°345	24°708	47230	14	23°972	5°889	47304	9	23°364	15°862
46973	11	8°260	13°399	47047	20	24°303	18°460	47121	10	10°317	24°049	47231	13	2°060	6°414	47305	17	2°667	16°793
46974	8	9°094	13°571	47048	11	2°660	19°330	47122*	33	11°484	24°456	47232	10	6°822	6°605	47306	12	2°761	16°133
46975	10	13°290	13°927	47049	8	2°712	19°447	47123	10	12°216	24°262	47233	11	11°365	6°765	47307	12	5°100	16°194
46976	13	15°711	13°947	47050	10	7°832	19°940	47124	12	12°640	24°993	47234	9	17°726	6°430	47308	20	7°936	16°931
46977	8	16°560	13°835	47051	8	9°320	19°651	47125	21	20°651	24°499	47235	11	19°407	6°574	47309*	20	17°560	16°143
46978	8	18°337	13°374	47052	12	10°901	19°770	47126	9	20°810	24°209	47236*	22	20°306	6°431	47310	9	18°587	16°994
46979	10	22°479	13°024	47053*	31	12°290	19°334	47127	8	21°881	24°573	47237	9	10°578	7°800	47311	12	21°945	16°681
46980	11	23°170	13°370	47054	8	14°274	19°337	47128	11	6°210	25°478	47238	13	13°089	7°234	47312*	23	22°804	16°791
46981	15	24°878	13°524	47055	8	14°665	19°990	47129	10	8°780	25°053	47239	11	20°353	7°533	47313	10	1°923	17°376
46982	24	25°943	13°399	47056	21	15°363	19°819	47130	10	10°551	25°651	47240	11	20°744	7°107	47314	7	2°849	17°481
46983	22	5°239	14°586	47057	9	16°155	19°960	47131	12	12°193	25°880	47241	8	23°634	7°241	47315	10	6°785	17°449
46984	10	5°309	14°499	47058	10	17°744	19°274	47132	10	14°060	25°335	47242	12	1°867	8°208	47316	10	8°494	17°101
46985	20	6°158	14°558	47059	10	19°849	19°145	47133	11	16°787	25°237	47243	9	3°545	8°913	47317	9	9°209	17°372
46986	8	7°890	14°372	47060	10	20°127	19°985	47134	10	17°432	25°365	47244	10	4°759	8°288	47318	10	10°490	17°307
46987	15	11°054	14°217	47061	18	20°860	19°830	47135	32	18°010	25°990	47245	8	11°281	8°909	47319*	23	17°907	17°409
46988	10	12°585	14°311	47062	10	21°189	19°900	47136	10	18°391	25°382	47246	9	13°611	8°932	47320	10	22°063	17°423
46989	21	17°016	14°439	47063	8	4°730	20°081	47137*	22	19°340	25°695	47247	8	24°749	8°266	47321	8	1°032	18°108
46990	9	20°090	14°710	47064	21	4°885	20°413	47138	25	21°690	25°860	47248	9	0°946	9°183	47322	9	2°825	18°225
46991	9	21°665	14°893	47065	13	10°582	20°151	47139	16	22°093	25°792	47249	11	2°781	9°704	47323*	14	12°902	18°431
46992	14	23°178	14°645	47066	10	13°250	20°680	47140	12	24°718	25°204	47250	6	3°366	9°332	47324*	30	16°604	18°408
46993	11	25°655	14°390	47067	11	14°333	20°922	47141	28	25°054	25°178	47251	10	10°153	9°193	47325*	22	21°714	18°347
46994	10	4°421	15°749	47068	10	16°149	20°487					47252	12	13°698	9°716	47326	8	21°982	18°963
46995	8	7°310	15°765	47069	11	16°610	20°552					47253	9	20°282	9°124	47327	9	22°289	18°053
46996	11	8°839	15°040	47070*	20	19°371	20°600					47254	9	24°584	9°724	47328*	34	23°161	18°029
46997	10	10°750	15°285	47071	10	21°755	20°179					47255	10	3°620	10°719	47329	12	25°088	18°977
46998	10	12°736	15°651	47072	7	22°070	20°424					47256	12	7°448	10°424	47330	22	25°554	18°021
46999	14	13°140	15°112	47073	11	0°878	21°540					47257	9	9°473	10°660	47331	11	8°988	19°878
47000	9	14°215	15°140	47074	23	2°551	21°212					47258*	22	12°527	10°924	47332	10	10°912	19°603
47001	10	16°561	15°085	47075*	25	3°015	21°910					47259	12	14°355	10°926	47333	9	14°037	19°617
47002	16	16°600	15°029	47076	17	4°298	21°518					47260	11	16°352	10°212	47334	8	18°889	19°439
47003	17	17°005	15°568	47077	12	7°294	21°510					47261*	30	16°752	10°358	47335	10	21°183	19°288
47004	16	20°000	15°570	47078	7	9°924	21°316					47262	9	17°245	10°721	47336	12	23°494	19°044
47005	8	20°815	15°900	47079	10	10°811	21°633					47263*	20	23°697	10°639	47337	9	5°334	20°436
47006	10	22°090	15°619	47080	7	12°110	21°914					47264*	21	1°894	11°129	47338	10	5°480	20°750
47007	10	22°319	15°517	47081	10	17°131	21°907					47265*	18	2°123	11°191	47339	7	6°144	20°316
47008	21	24°263	15°791	47082	9	19°940	21°630					47266*	25	10°588	11°523	47340*	20	10°099	20°866
47009*	40	25°210	15°224	47083*	16	20°118	21°285					47267*	18	11°276	11°442	47341	9	11°278	20°678
47010	10	0°190	16°211	47084	10	20°639	21°137					47268	6	13°458	11°172	47342	10	25°034	20°747
47011	11	2°619	16°190	47085	12	20°913	21°672					47269*	11	15°813	11°765	47343	19	5°385	21°759
47012	9	3°641	16°241	47086	11	22°664	21°611					47270	8	0°652	12°934	47344	16	11°339	21°536
47013	10	3°701	16°325	47087	15	0°439	22°934					47271	8	1°570	12°812	47345	8	13°617	21°628
47014	10	4°905	16°258	47088	30	1°240	22°024					47272	9	1°872	12°926	47346*	35	24°221	21°900
47015	11	6°710	16°490	47089	9	5°185	22°882					47273*	30	7°565	12°709	47347	14	6°991	22°125
47016	10	7°569	16°836	47090	10	8°395	22°799					47274	10	8°191	12°942	47348	10	7°646	22°670
47017	9	10°700	16°307	47091*	31	12°992	22°720					47275	12	12°544	12°360	47349	12	8°224	22°271
47018	20	18°605	16°320	47092	10	13°422	22°399					47276	8	20°955	12°923	47350	10	9°576	22°012
47019	8	19°527	16°875	47093	8	14°053	22°820					47277	9	22°215	12°405	47351	12	14°840	22°482
47020	22	24°165	16°450	47094	10														

47361	7	11.555	24.376
47362	11	12.666	24.428
47363	18	17.347	24.997
47364*	17	18.709	24.061
47365	8	19.901	24.368
47366	10	3.643	25.587
47367*	23	5.056	25.726
47368*	16	5.416	25.476
47369	9	10.693	25.437
47370	10	14.174	25.296

R. A. 16^h 28^m

Plate 2788; 1909 Aug. 6.

Provisional Constants.

A	B	C
-00035	-00735	-1630

D	E	F
+00748	-00031	-3063

Mag. = 14.8 - 1.25√d

No.	d	x	y
47401	14	4.694	0.789
47402	9	6.655	0.251
47403	13	7.069	0.078
47404	12	8.598	0.692
47405	17	8.662	0.431
47406	11	19.137	0.125
47407	10	23.776	0.506
47408*	23	1.272	1.449
47409*	21	7.321	1.690
47410	12	11.347	1.215
47411	16	18.808	1.454
47412	18	19.296	1.516
47413	16	24.864	1.091
47414	13	3.838	2.457
47415*	22	4.039	2.449
47416*	21	13.583	2.156
47417	12	23.954	2.409
47418	11	5.006	3.440
47419	14	9.201	3.751
47420*	24	9.487	3.174
47421	7	12.236	3.926
47422	13	19.219	3.625
47423	12	23.342	3.478
47424	7	11.653	4.397
47425	11	21.216	4.170
47426	11	0.212	5.427
47427	18	2.056	5.710
47428	15	9.205	5.845
47429	10	21.156	5.432
47430	14	24.964	5.165
47431	5	6.670	6.280
47432	19	14.556	6.503
47433	8	17.194	6.884
47434	17	21.547	6.971
47435	21	23.193	6.496
47436	18	25.651	6.884
47437	13	12.227	7.978
47438	12	16.296	7.684
47439	14	21.759	7.753
47440*	28	22.261	7.270
47441	11	25.744	7.746

47442	12	2.841	8.067
47443	13	15.705	8.369
47444	5	19.156	8.786
47445	18	19.429	8.978
47446	8	2.682	9.511
47447	12	11.718	9.779
47448	13	12.271	9.722
47449	14	15.380	9.709
47450	13	20.564	9.582
47451*	19	1.802	10.429
47452	5	2.920	10.201
47453	9	8.068	10.600
47454	13	8.911	10.829
47455	17	10.282	10.701
47456	10	12.826	10.445
47457*	19	15.479	10.056
47458*	20	20.017	10.760
47459	6	25.709	10.679
47460	7	0.544	11.863
47461	9	6.369	11.485
47462	5	6.630	11.951
47463*	21	12.274	11.209
47464	6	12.351	11.337
47465*	22	13.441	11.172
47466	9	16.663	11.506
47467*	21	19.211	11.010
47468	9	20.454	11.576
47469	12	24.987	11.567
47470	5	0.345	12.184
47471*	17	4.329	12.735
47472	6	11.267	12.946
47473	7	11.671	12.579
47474	15	14.925	12.833
47475	13	14.957	12.526
47476*	18	17.308	12.494
47477	15	20.866	12.633
47478*	16	3.037	13.728
47479*	18	3.739	13.776
47480	8	4.820	13.687
47481	12	6.474	13.889
47482	9	11.389	13.568
47483	10	12.632	13.859
47484*	34	13.199	13.534
47485*	23	16.579	13.929
47486	8	25.551	13.127
47487	7	0.659	14.126
47488	13	3.756	14.275
47489	15	4.821	14.191
47490	8	6.703	14.052
47491	17	9.902	14.456
47492	9	20.355	14.151
47493	9	23.571	14.519
47494	12	24.687	14.114
47495	13	25.911	14.778
47496	6	1.500	15.609
47497	8	6.410	15.509
47498	6	11.221	15.800
47499	14	11.478	15.443
47500	8	17.897	15.071
47501	18	23.246	15.746
47502*	20	0.950	16.532
47503	9	7.743	16.226
47504	11	7.803	16.670
47505	6	9.018	16.512
47506	11	9.344	16.664
47507	8	9.673	16.568
47508	6	15.471	16.053
47509	14	17.627	16.269
47510	15	18.985	16.596
47511*	19	20.223	16.611
47512	9	25.965	16.267
47513	7	0.217	17.164
47514*	26	1.313	17.754
47515	20	3.684	17.739

R. A. 16^h 36^m

Plate 434; 1893 June 30.

Provisional Constants.

A	B	C
+00808	+00174	-3752

D	E	F
-00185	+00795	-0938

Mag. = 13.3 - 1.02√d

No.	d	x	y
47601	10	1.653	0.543
47602	12	4.966	0.992
47603	12	13.102	0.777
47604	10	18.783	0.320
47605*	20	24.617	0.739
47606	11	2.765	1.105
47607*	16	7.616	1.419
47608	10	13.027	1.489
47609	9	13.958	1.081
47610	8	15.847	1.421
47611	11	25.409	1.214
47612	10	1.877	2.454
47613	7	15.890	2.667
47614	8	1.285	3.547
47615	9	10.453	3.647
47616	10	10.496	3.958
47617*	12	16.354	3.830
47618	10	9.422	4.202
47619	10	10.862	4.348
47620	6	11.725	4.731
47621	8	16.156	4.290
47622	10	17.422	4.536
47623	13	22.880	4.870
47624	12	2.963	5.209
47625	9	6.563	5.564
47626	10	9.074	5.511
47627	8	9.336	5.405
47628	11	13.460	5.702
47629	9	18.670	5.124
47630	10	23.051	5.279
47631	20	1.208	6.593
47632	12	3.696	6.926
47633	20	5.650	6.459
47634	9	5.727	6.148
47635	10	7.931	6.745
47636	11	14.572	6.765
47637	10	25.334	6.892
47638*	32	0.290	7.393
47639	8	3.305	7.735
47640	10	3.811	7.792
47641	10	4.253	7.636
47642*	22	9.517	7.871
47643	10	10.105	7.616
47644	10	20.173	7.376
47645	9	24.098	7.757
47646	12	4.095	8.795
47647	10	4.556	8.689
47648	8	7.863	8.091
47649	11	8.337	8.595
47650	9	10.024	8.220
47651*	14	10.134	8.375
47652	9	11.178	8.548
47653	10	14.955	8.431
47654	9	6.801	9.125
47655	12	13.629	9.794
47656	10	13.918	9.036

47657	9	15.634	9.305
47658	10	3.848	10.748
47659	10	8.465	10.550
47660	8	10.585	10.839
47661	12	11.697	10.985
47662	10	16.618	10.109
47663	10	3.139	11.664
47664	10	7.453	11.795
47665*	30	9.850	11.740
47666*	12	10.202	11.720
47667	10	24.731	11.742
47668	8	3.778	12.136
47669	9	6.915	12.800
47670	10	8.553	12.150
47671	10	12.786	12.645
47672	12	22.810	12.548
47673	8	2.217	12.387
47674	10	3.747	13.222
47675	9	10.809	13.523
47676*	37	15.119	13.607
47677	10	16.097	13.851
47678	11	22.611	13.593
47679	11	23.300	13.854
47680	9	24.564	13.810
47681	9	1.785	14.673
47682	11	2.900	14.236
47683	10	4.151	14.876
47684	12	6.079	14.571
47685	11	12.198	14.777
47686	10	21.613	14.770
47687	13	1.486	15.915
47688	10	7.482	15.066
47689	9	13.976	15.310
47690	15	14.284	15.449
47691	10	16.857	15.509
47692	10	17.666	15.940
47693	10	20.904	15.467
47694	17	23.651	15.104
47695	9	4.241	16.375
47696	10	15.719	16.997
47697	12	17.212	16.722
47698	10	19.146	16.100
47699	12	19.375	16.678
47700*	22	21.524	16.975
47701	16	0.999	17.844
47702	11	1.648	17.596
47703	10	2.391	17.234
47704	9	7.282	17.136
47705	12	13.419	17.099
47706	9	16.531	17.434
47707	10	3.482	18.240
47708	12	6.586	18.149
47709	10	8.267	18.938
47710	10	12.499	18.266
47711	9	19.933	18.534
47712*	11	3.342	19.836
47713	11	5.776	19.518
47714	10	10.656	19.931
47715	12	11.442	19.413
47716	11	11.979	19.743
47717	8	12.238	19.488
47718	10	14.875	19.451
47719*	18	16.951	19.661
47720	9	6.073	20.821
47721*	22	7.741	20.568
47722	9	12.193	20.462
47723	9	12.999	20.727
47724*	20	18.375	20.451
47725*	20	18.526	20.476
47726	9	20.914	20.482
47727	10	24.289	20.726
47728	13	1.359	21.098
47729*	20	1.586	21.783
47730*	15	10.662	21.578

48131	6	9°779	7°518	48205	20	23°870	10°637	48279	18	10°376	14°022	48353	9	20°628	16°827	48427	11	23°782	19°165
48132	12	9°988	7°776	48206	23	24°071	10°121	48280	19	10°664	14°762	48354	11	21°896	16°506	48428	8	0°770	20°596
48133	18	10°080	7°088	48207	16	25°165	10°800	48281	19	10°883	14°312	48355	7	22°740	16°919	48429	15	4°762	20°673
48134	9	10°416	7°637	48208	17	25°287	10°339	48282	6	11°978	14°775	48356	24	23°208	16°845	48430	6	7°031	20°518
48135	18	12°405	7°314	48209	24	0°620	11°520	48283	7	12°926	14°653	48357	8	24°397	16°069	48431	8	7°602	20°709
48136	9	12°662	7°783	48210	6	2°399	11°230	48284	12	15°117	14°599	48358	29	1°428	17°192	48432	19	8°098	20°085
48137	12	13°837	7°650	48211	19	4°314	11°037	48285*	31	15°288	14°048	48359	18	2°878	17°896	48433	7	8°406	20°035
48138	15	14°002	7°948	48212	24	4°978	11°629	48286	10	15°320	14°747	48360	19	3°102	17°939	48434	12	8°797	20°087
48139	19	14°376	7°040	48213	9	4°997	11°924	48287	8	16°511	14°516	48361	19	3°696	17°406	48435	6	9°636	20°291
48140*	48	17°353	7°320	48214	7	5°346	11°127	48288	19	17°037	14°655	48362	7	3°886	17°677	48436	19	11°811	20°640
48141	13	17°867	7°191	48215	8	11°431	11°282	48289*	30	17°184	14°806	48363	10	4°161	17°264	48437*	26	11°857	20°757
48142	12	18°537	7°627	48216	8	13°199	11°885	48290	19	17°747	14°415	48364	7	5°706	17°493	48438	13	14°097	20°140
48143	9	20°170	7°494	48217	7	14°757	11°027	48291	7	18°274	14°370	48365	18	7°821	17°812	48439	7	15°266	20°064
48144	22	21°167	7°989	48218	10	15°356	11°125	48292	13	18°471	14°508	48366	13	9°030	17°806	48440	14	16°899	20°218
48145	12	21°885	7°450	48219	18	16°268	11°203	48293	7	19°084	14°647	48367	11	9°031	17°904	48441	14	18°729	20°448
48146	28	23°994	7°368	48220	7	16°343	11°332	48294	8	20°926	14°489	48368	12	9°409	17°451	48442	15	19°132	20°345
48147	9	24°061	7°139	48221	6	17°834	11°485	48295*	39	21°196	14°223	48369	13	12°140	17°521	48443	13	19°155	20°082
48148	8	24°453	7°744	48222	13	18°198	11°873	48296	21	24°256	14°434	48370	12	13°172	17°957	48444	12	20°453	20°747
48149*	47	25°460	7°696	48223	15	18°228	11°165	48297	9	24°889	14°306	48371	7	14°743	17°445	48445	9	20°629	20°365
48150*	30	3°813	8°629	48224	8	20°897	11°271	48298	14	25°316	14°740	48372	21	15°098	17°998	48446	10	20°700	20°924
48151	24	5°668	8°795	48225	7	21°611	11°499	48299	12	2°064	15°779	48373	16	15°237	17°937	48447	15	21°305	20°988
48152	21	6°892	8°940	48226	18	23°994	11°500	48300	14	2°489	15°522	48374	5	15°624	17°430	48448	24	21°379	20°800
48153	5	7°482	8°988	48227	6	24°891	11°339	48301	7	3°076	15°586	48375*	29	17°160	17°899	48449	11	21°423	20°519
48154	20	8°524	8°626	48228	12	1°102	12°308	48302	6	4°409	15°099	48376	16	17°376	17°874	48450	14	21°679	20°237
48155*	29	12°752	8°803	48229	7	1°689	12°899	48303	15	5°455	15°563	48377	7	17°394	17°774	48451	12	23°096	20°414
48156	12	13°251	8°357	48230	23	3°156	12°780	48304	6	5°828	15°417	48378	12	18°543	17°544	48452	6	23°700	20°328
48157	19	14°970	8°821	48231	17	3°397	12°880	48305*	21	5°926	15°258	48379	9	18°767	17°916	48453	25	25°580	20°709
48158	11	16°134	8°523	48232	6	4°350	12°852	48306	16	6°034	15°102	48380	14	19°779	17°108	48454	7	2°226	21°039
48159	7	17°293	8°040	48233	14	4°883	12°136	48307	11	7°046	15°729	48381	15	20°557	17°292	48455	8	2°992	21°011
48160	8	17°937	8°145	48234	20	5°114	12°501	48308	10	9°051	15°025	48382	9	21°239	17°531	48456	13	4°914	21°861
48161	12	17°976	8°304	48235	12	5°927	12°731	48309	9	10°844	15°035	48383	17	21°367	17°250	48457	13	5°621	21°330
48162	5	19°862	8°473	48236	10	6°734	12°443	48310	8	11°028	15°275	48384	16	23°056	17°811	48458	20	6°297	21°786
48163*	30	21°824	8°654	48237	13	8°232	12°050	48311	7	11°951	15°888	48385	15	23°151	17°963	48459	12	6°678	21°032
48164	14	21°990	8°598	48238	7	9°969	12°388	48312	13	12°979	15°055	48386	13	24°130	17°344	48460	15	7°280	21°001
48165	11	23°020	8°517	48239	14	10°213	12°745	48313	14	14°017	15°506	48387	14	24°974	17°561	48461	12	8°182	21°896
48166	12	23°639	8°960	48240	6	12°606	12°718	48314	18	14°911	15°557	48388	17	25°428	17°455	48462	17	8°224	21°006
48167	11	1°872	9°424	48241	8	16°785	12°147	48315	9	15°730	15°725	48389	15	2°837	18°684	48463	11	8°393	21°607
48168	9	2°411	9°441	48242	11	17°052	12°279	48316	10	15°966	15°464	48390	16	2°917	18°065	48464	5	8°912	21°389
48169	21	3°834	9°700	48243	13	17°863	12°209	48317	8	17°315	15°621	48391	7	3°270	18°100	48465	22	11°517	21°460
48170	5	5°960	9°793	48244	18	18°886	12°874	48318	15	17°772	15°885	48392	9	4°671	18°505	48466	11	12°202	21°604
48171	17	7°355	9°482	48245	18	18°973	12°381	48319	14	18°198	15°216	48393	15	6°267	18°034	48467	14	12°520	21°137
48172	10	7°572	9°439	48246	19	19°375	12°502	48320	16	18°276	15°973	48394	9	9°013	18°095	48468	14	14°744	21°574
48173	8	8°594	9°934	48247	19	19°443	12°208	48321	8	19°655	15°867	48395	13	10°600	18°289	48469	20	15°391	21°637
48174*	32	8°948	9°095	48248	17	22°567	12°117	48322	18	22°500	15°859	48396	17	12°927	18°808	48470	9	16°174	21°493
48175	22	11°024	9°981	48249	28	22°658	12°960	48323	19	23°030	15°647	48397	8	13°040	18°843	48471	13	16°947	21°832
48176	8	11°696	9°044	48250	23	24°391	12°813	48324	13	23°559	15°247	48398	19	14°930	18°202	48472	18	18°312	21°081
48177	13	12°317	9°637	48251	13	24°478	12°511	48325	12	23°638	15°693	48399*	21	15°780	18°207	48473	12	18°314	21°566
48178	7	15°366	9°846	48252	7	2°044	13°469	48326	13	23°932	15°102	48400*	52	16°841	18°963	48474	14	20°938	21°605
48179	9	16°331	9°070	48253	14	3°441	13°110	48327	10	24°486	15°511	48401	16	16°958	18°240	48475	20	25°461	21°615
48180	13	16°644	9°108	48254	22	4°925	13°083	48328	13	0°132	16°427	48402	19	17°006	18°296	48476	11	2°652	22°439
48181	9	16°968	9°241	48255	14	5°972	13°111	48329	19	1°037	16°088	48403	19	17°444	18°825	48477	19	7°038	22°101
48182	9	19°080	9°647	48256	14	7°448	13°255	48330	8	3°288	16°379	48404	19	18°273	18°544	48478	18	11°307	22°129
48183	11	21°158	9°125	48257	11	8°162	13°658	48331	18	5°343	16°624	48405	10	18°284	18°211	48479	7	12°564	22°920
48184	9	22°178	9°534	48258	12	9°809	13°921	48332	23	7°421	16°993	48406	14	18°683	18°794	48480	16	13°003	22°710
48185	6	23°760	9°167	48259	7	11°227	13°398	48333	19	8°460	16°759	48407*	40	18°704	18°800	48481	17	13°579	22°319
48186	20	24°436	9°880	48260	9	12°062	13°160	48334	10	9°722	16°521	48408	8	20°459	18°901	48482	16	14°611	22°888
48187	18	25°756	9°366	48261	19	12°345	13°469	48335	15	10°064	16°310	48409	16	22°774	18°158	48483	19	14°764	22°989
48188*	27	0°728	10°879	48262	7	13°576	13°311	48336	9	10°362	16°208	48410	13	23°594	18°816	48484	21	14°793	22°990
48189*	60	1°132	10°694	48263	8	14°789	13°844	48337	8	10°531	16°477	48411	9	23°889	18°924	48485	11	15°517	22°194
48190	8	2°382	10°698	48264	13	16°907	13°379	48338	6	12°098	16°151	48412*	58	1°301	19°621	48486	5	16°606	22°431
48191	7	6°984	10°509	48265	4	20°674	13°406	48339	14	12°120	16°802	48413	19	2°568	19°465	48487	10	16°758	22°738
48192	16	8°065	10°211	48266	12	22°186	13°272	48340*	28	13°237	16°093	48414	25	6°775	19°976	48488	22	21°349	22°260
48193	13	9°307	10°714	48267	15	23°124	13°064	48341											

48501	14	9°521	23°237	48605	17	16°494	0°764	48679	10	7°421	5°375	48753	16	16°242	8°490	48827	16	23°110	11°081
48502*	58	10°133	23°522	48606	17	17°339	0°458	48680	14	7°586	5°256	48754	8	16°344	8°593	48828	18	23°117	11°879
48503	21	10°190	23°518	48607	19	18°130	0°746	48681	11	8°376	5°091	48755	17	16°351	8°337	48829	20	23°378	11°205
48504	14	14°714	23°261	48608	26	18°962	0°632	48682	16	11°563	5°554	48756	17	16°567	8°299	48830	12	23°476	11°447
48505	12	15°034	23°967	48609	15	19°303	0°868	48683	18	11°777	5°536	48757	8	17°866	8°090	48831	6	23°511	11°403
48506	10	15°464	23°274	48610	14	20°340	0°629	48684	7	11°811	5°026	48758	13	18°601	8°160	48832*	22	24°894	11°426
48507	15	15°825	23°286	48611	16	8°350	1°842	48685	14	14°899	5°867	48759	14	18°949	8°603	48833	31	1°024	12°824
48508	7	16°838	23°533	48612	8	10°237	1°321	48686	22	15°266	5°704	48760	13	19°030	8°444	48834	13	1°489	12°923
48509	13	16°984	23°216	48613	24	11°140	1°220	48687	22	15°538	5°499	48761	10	20°611	8°689	48835	24	2°753	12°650
48510	14	17°081	23°860	48614	12	11°734	1°942	48688	8	16°413	5°777	48762	6	22°154	8°382	48836	13	2°836	12°345
48511	23	18°578	23°813	48615	8	12°288	1°192	48689	10	16°620	5°430	48763	16	22°449	8°013	48837	8	6°587	12°627
48512	20	19°346	23°830	48616	15	12°489	1°529	48690	22	17°635	5°656	48764	16	23°687	8°696	48838	17	7°541	12°796
48513	14	21°369	23°717	48617	15	12°712	1°359	48691	7	19°576	5°177	48765	22	24°251	8°829	48839	16	7°983	12°235
48514	10	23°713	23°148	48618	8	12°879	1°200	48692	16	19°693	5°681	48766*	54	25°269	8°348	48840	6	8°101	12°986
48515	9	24°344	23°422	48619	17	14°982	1°291	48693	14	20°630	5°666	48767	5	0°481	9°406	48841	11	8°406	12°091
48516	26	2°207	24°896	48620	12	15°113	1°699	48694	23	21°699	5°695	48768	23	2°388	9°965	48842	6	8°854	12°683
48517	16	3°474	24°425	48621	26	15°157	1°195	48695	18	25°130	5°439	48769	20	2°750	9°716	48843	15	9°005	12°998
48518	12	5°649	24°478	48622	8	19°048	1°421	48696	8	25°658	5°860	48770	18	4°063	9°182	48844	9	9°317	12°240
48519*	28	6°724	24°427	48623	18	21°863	1°947	48697	13	0°046	6°302	48771	13	4°366	9°483	48845	8	9°724	12°645
48520*	37	7°082	24°174	48624	16	24°318	1°795	48698	10	1°951	6°505	48772	7	5°931	9°920	48846*	32	10°560	12°699
48521	8	7°960	24°727	48625	13	25°999	1°188	48699	7	2°327	6°978	48773	10	7°020	9°441	48847	19	10°728	12°198
48522	19	10°337	24°431	48626	14	5°950	2°901	48700	9	4°046	6°368	48774	6	9°974	9°004	48848	14	11°679	12°667
48523	17	10°490	24°791	48627	11	8°002	2°911	48701	24	6°212	6°597	48775	8	9°974	9°106	48849	11	12°301	12°950
48524	5	12°503	24°862	48628	13	9°828	2°672	48702*	33	6°954	6°911	48776	8	10°242	9°149	48850	15	17°074	12°875
48525	13	14°889	24°765	48629	18	12°383	2°834	48703	5	8°293	6°554	48777	15	11°081	9°010	48851	19	17°538	12°132
48526	14	15°557	24°656	48630	19	13°319	2°782	48704	14	8°444	6°851	48778	18	14°185	9°660	48852	6	18°111	12°574
48527	13	17°056	24°814	48631	17	14°183	2°037	48705	12	9°341	6°095	48779	9	15°459	9°243	48853	20	21°919	12°762
48528	7	17°575	24°729	48632	21	16°044	2°536	48706	9	9°763	6°251	48780	9	15°675	9°807	48854	17	22°025	12°936
48529	20	18°767	24°817	48633	10	16°664	2°653	48707	10	11°149	6°611	48781	12	21°516	9°092	48855	14	25°060	12°217
48530	23	19°886	24°665	48634	19	18°555	2°327	48708	8	12°839	6°250	48782	6	22°228	9°315	48856	11	1°856	13°190
48531	17	20°729	24°398	48635*	36	19°858	2°152	48709	19	13°937	6°009	48783*	42	23°087	9°470	48857	16	3°094	13°094
48532	17	4°151	25°543	48636	19	21°749	2°694	48710	23	15°836	6°201	48784	24	0°243	10°525	48858	6	3°422	13°850
48533	8	4°203	25°496	48637	18	22°897	2°014	48711	13	18°125	6°379	48785	15	0°992	10°073	48859	13	3°445	13°130
48534	13	6°057	25°567	48638	8	23°636	2°500	48712	6	19°851	6°701	48786	12	1°774	10°516	48860	7	4°734	13°720
48535	23	7°446	25°236	48639	29	24°644	2°993	48713	16	20°693	6°239	48787	21	2°196	10°483	48861	19	6°857	13°471
48536	11	7°930	25°684	48640	14	25°695	2°981	48714	11	22°503	6°847	48788	16	3°494	10°625	48862	11	7°204	13°986
48537	20	9°545	25°812	48641	11	6°975	3°413	48715	18	24°948	6°723	48789	15	3°607	10°160	48863	10	7°957	13°603
48538	17	10°213	25°707	48642	12	8°246	3°266	48716	30	2°267	7°214	48790	9	4°447	10°919	48864	15	9°330	13°107
48539	11	10°901	25°289	48643	19	8°493	3°583	48717	7	2°737	7°582	48791	18	5°915	10°772	48865*	27	9°584	13°939
48540	17	10°910	25°612	48644	10	10°001	3°524	48718*	45	3°737	7°516	48792	8	6°478	10°295	48866	6	9°653	13°800
48541	17	12°611	25°170	48645*	27	12°478	3°868	48719	13	4°478	7°570	48793	22	9°234	10°341	48867	29	10°747	13°189
48542	15	16°716	25°898	48646	14	13°639	3°650	48720	13	6°401	7°789	48794	7	12°061	10°114	48868	17	11°260	13°014
48543	15	21°666	25°402	48647	22	14°173	3°500	48721	19	7°818	7°657	48795	13	13°306	10°368	48869	10	13°402	13°415
48544	14	25°881	25°840	48648	14	15°111	3°415	48722	22	9°662	7°271	48796	8	16°784	10°299	48870	17	13°956	13°593
				48649	13	15°166	3°109	48723	12	10°535	7°135	48797	15	17°396	10°639	48871*	30	17°193	13°576
				48650	8	17°048	3°421	48724	18	11°706	7°444	48798	8	19°054	10°940	48872	22	19°064	13°465
				48651	15	17°510	3°708	48725	20	11°968	7°459	48799	11	19°580	10°921	48873	16	19°918	13°900
				48652	14	21°803	3°551	48726	19	12°129	7°545	48800	13	19°992	10°329	48874	5	20°497	13°521
				48653	13	22°409	3°660	48727	14	12°748	7°393	48801	18	21°404	10°474	48875*	30	21°657	13°339
				48654	12	22°651	3°805	48728	14	13°314	7°385	48802	6	23°037	10°287	48876	19	24°397	13°016
				48655	5	3°847	4°670	48729	15	14°455	7°158	48803	13	24°935	10°798	48877	17	24°411	13°928
				48656	15	4°669	4°935	48730	22	15°806	7°973	48804	8	25°224	10°361	48878	10	25°128	13°274
				48657	23	5°250	4°083	48731	11	16°512	7°145	48805	25	25°897	10°352	48879	11	2°332	14°946
				48658	14	7°239	4°989	48732	9	16°907	7°053	48806	19	0°916	11°983	48880	6	2°603	14°102
				48659	22	8°091	4°106	48733	7	24°763	7°796	48807	18	2°335	11°341	48881	21	2°647	14°275
				48660	11	9°183	4°185	48734	18	24°800	7°150	48808	7	3°229	11°166	48882	13	3°276	14°134
				48661	19	11°667	4°974	48735	21	25°354	7°366	48809	6	4°511	11°718	48883	15	3°713	14°560
				48662	6	11°777	4°235	48736	19	25°666	7°267	48810	13	7°213	11°152	48884	16	5°028	14°467
				48663	17	13°170	4°394	48737	27	0°116	8°532	48811	12	7°634	11°043	48885*	32	5°118	14°171
				48664	7	15°039	4°462	48738	10	0°279	8°473	48812	8	8°218	11°756	48886	17	5°332	14°664
				48665*	32	15°433	4°146	48739	12	1°934	8°807	48813	16	9°902	11°420	48887	12	6°776	14°579
				48666	21	15°517	4°063	48740	9	4°374	8°789	48814	17	9°936	11°618	48888	9	7°288	14°568
				48667	7	17°186	4°096	48741	18	4°882	8°246	48815	11	10°390	11°910	48889*	34	7°531	14°987
				48668	15	17°780	4°693	48742	14	6°349	8°372	48816	14	10°631	11°814	48890	15	8°864	14°348
				48669	17	19°663	4°784	48743	8	7°084	8°574	48817	9	11°267	11°290	48891	17	9°752	14°437
				48670	21	19°985	4°520	487											

48901	18	21°790	14°340	48975*	23	21°176	18°548	49049	7	10°259	22°809	49257	12	22°017	2°741
48902	6	22°164	14°930	48976	19	21°573	18°111	49050	11	12°310	22°400	49258	18	23°846	2°986
48903	22	23°653	14°639	48977*	27	23°414	18°993	49051	14	13°404	22°152	49259	13	24°059	2°539
48904	13	23°839	14°734	48978	19	24°550	18°188	49052	8	14°099	22°837	49260	12	0°094	3°993
48905	7	25°731	14°134	48979	8	24°783	18°909	49053	10	14°124	22°279	49261	13	0°525	3°469
48906	18	0°912	15°727	48980	17	25°024	18°030	49054	7	14°493	22°255	49262	21	4°848	3°485
48907	22	1°441	15°505	48981	11	1°800	19°139	49055	9	14°710	22°974	49263	11	6°098	3°039
48908	13	1°963	15°099	48982	11	6°873	19°316	49056	6	15°042	22°939	49264*	34	8°357	3°626
48909	13	2°050	15°541	48983	18	7°895	19°210	49057	19	16°118	22°561	49265	12	8°584	3°863
48910	7	5°709	15°915	48984*	29	10°146	19°011	49058	7	16°225	22°337	49266	10	8°925	3°276
48911	9	7°102	15°478	48985	9	12°807	19°640	49059*	22	16°459	22°205	49267	15	8°929	3°583
48912	13	7°496	15°119	48986	19	15°153	19°157	49060	22	18°760	22°642	49268	8	10°678	3°314
48913	10	7°767	15°902	48987	6	15°652	19°453	49061	8	24°440	22°932	49269	11	10°785	3°543
48914	13	9°152	15°417	48988	5	16°689	19°894	49062	13	24°859	22°820	49270	9	11°640	3°201
48915	17	11°112	15°881	48989	10	17°436	19°382	49063	10	25°004	22°205	49271	12	11°900	3°047
48916	8	11°761	15°571	48990	17	17°679	19°940	49064	9	2°883	23°260	49272	10	12°487	3°182
48917	9	12°456	15°428	48991*	31	19°340	19°016	49065	10	4°634	23°041	49273	13	13°020	3°199
48918	20	15°774	15°610	48992	10	19°534	19°074	49066	18	5°608	23°873	49274	13	13°316	3°270
48919	11	16°157	15°351	48993	15	19°619	19°004	49067*	25	8°443	23°089	49275	19	14°845	3°427
48920	8	18°337	15°371	48994	4	21°110	19°611	49068	13	9°994	23°907	49276	9	15°111	3°234
48921	9	19°571	15°802	48995	5	21°309	19°573	49069	21	11°609	23°033	49277	12	16°980	3°597
48922	24	20°346	15°516	48996	26	24°422	19°285	49070	14	11°671	23°488	49278	20	19°179	3°881
48923	7	20°675	15°936	48997	18	25°012	19°892	49071	7	14°057	23°434	49279	19	19°307	3°958
48924	20	22°204	15°490	48998	10	0°164	20°120	49072*	22	14°222	23°908	49280	8	20°177	3°753
48925	17	22°628	15°801	48999	9	1°583	20°272	49073	16	15°644	23°567	49281*	51	20°489	3°151
48926	18	23°896	15°565	49000	24	4°077	20°524	49074	13	17°034	23°611	49282*	39	21°390	3°794
48927	7	24°171	15°903	49001	18	6°078	20°881	49075	19	17°322	23°463	49283	12	21°716	3°194
48928	7	0°318	16°388	49002	28	6°664	20°302	49076	16	18°123	23°353	49284	8	24°509	3°083
48929	28	1°638	16°701	49003*	55	8°301	20°569	49077	12	18°679	23°128	49285	19	3°416	4°711
48930	21	4°830	16°401	49004	10	9°657	20°042	49078	12	19°246	23°534	49286	15	3°537	4°287
48931	14	7°575	16°576	49005	11	9°830	20°305	49079	19	19°497	23°454	49287	12	5°374	4°888
48932	18	8°931	16°892	49006	17	11°165	20°447	49080	17	19°940	23°146	49288	20	7°021	4°214
48933	18	9°339	16°371	49007	14	12°198	20°442	49081	19	20°118	23°043	49289	9	7°162	4°478
48934	12	9°684	16°912	49008	22	16°456	20°689	49082	26	20°573	23°988	49290	27	8°617	4°949
48935	12	12°900	16°330	49009	7	17°480	20°905	49083*	24	21°659	23°381	49291	10	10°865	4°135
48936	13	13°650	16°323	49010*	39	17°489	20°568	49084	19	21°700	23°430	49292	20	14°573	4°506
48937	7	15°501	16°847	49011	16	17°616	20°090	49085	13	22°537	23°780	49293	11	15°798	4°504
48938	20	17°182	16°128	49012	17	17°919	20°433	49086	18	24°326	23°391	49294	8	17°017	4°609
48939	8	18°273	16°871	49013	19	18°727	20°854	49087	7	6°330	24°032	49295	9	17°451	4°834
48940	11	21°137	16°570	49014	11	22°200	20°809	49088	28	7°202	24°793	49296	12	18°083	4°969
48941	13	22°021	16°759	49015	13	22°681	20°617	49089	18	8°103	24°781	49297	7	18°136	4°281
48942	7	23°256	16°265	49016	11	23°396	20°732	49090	17	9°134	24°823	49298	9	20°621	4°054
48943	8	24°669	16°762	49017	15	24°352	20°583	49091	6	9°259	24°338	49299	10	20°855	4°158
48944	15	1°502	17°670	49018	13	24°366	20°171	49092	8	10°656	24°331	49300	21	20°959	4°406
48945	13	1°598	17°819	49019	7	25°013	20°985	49093	14	14°065	24°375	49301	10	22°420	4°383
48946	10	2°569	17°186	49020	5	25°608	20°659	49094	11	14°073	24°182	49302	21	23°617	4°929
48947	17	3°416	17°391	49021	9	0°339	21°949	49095	19	14°967	24°233	49303	30	24°496	4°625
48948	17	3°869	17°273	49022	19	3°976	21°434	49096	10	15°588	24°769	49304	6	2°164	5°221
48949	14	5°562	17°895	49023	6	4°320	21°915	49097	19	15°641	24°804	49305	19	3°268	5°209
48950	15	7°133	17°243	49024	9	4°936	21°311	49098	8	16°954	24°080	49306	12	3°804	5°625
48951	13	7°528	17°885	49025	17	6°206	21°972	49099	15	17°639	24°149	49307	11	5°939	5°380
48952	8	13°341	17°182	49026	19	6°520	21°019	49100	19	19°341	24°006	49308	10	6°483	5°234
48953	11	14°710	17°736	49027	15	8°841	21°214	49101	26	21°583	24°974	49309	11	7°473	5°404
48954	19	15°509	17°979	49028	23	9°168	21°947	49102	17	23°747	24°993	49310	20	8°148	5°731
48955	14	15°996	17°188	49029	9	9°205	21°242	49103	9	2°248	25°891	49311	13	8°193	5°311
48956	23	20°011	17°383	49030	21	10°124	21°008	49104	16	4°464	25°650	49312	16	9°504	5°129
48957	13	20°219	17°656	49031	18	11°355	21°951	49105	19	9°535	25°336	49313*	60	10°241	5°061
48958	17	22°976	17°858	49032	14	12°037	21°748	49106	17	10°269	25°550	49314	8	10°695	5°119
48959	9	23°651	17°331	49033	8	12°244	21°062	49107	13	11°479	25°252	49315*	53	10°869	5°236
48960	6	23°846	17°346	49034	13	12°755	21°315	49108	18	13°061	25°806	49316	10	10°927	5°019
48961	19	24°461	17°171	49035	10	12°851	21°935	49109	9	14°585	25°023	49317	18	11°220	5°249
48962	12	1°229	18°021	49036*	29	16°478	21°256	49110	17	15°406	25°529	49318	9	11°376	5°477
48963	6	2°058	18°665	49037	13	19°764	21°011	49111	13	19°236	25°147	49319	14	11°678	5°155
48964	17	6°905	18°646	49038	9	20°137	21°234	49112	40	20°248	25°915	49320	11	12°979	5°070
48965	9	9°441	18°920	49039	17	22°660	21°024	49113	12	20°659	25°263	49321	18	13°138	5°301
48966	14	11°139	18°340	49040	8	23°864	21°121	49114	21	23°244	25°732	49322	17	13°737	5°790
48967	10	11°750	18°446	49041	18	3°718	22°187					49323	13	14°034	5°596
48968	18	12°829	18°117	49042	8	4°172	22°302					49324	15	14°445	5°955
48969	10	12°867	18°962	49043*	44	4°314	22°523					49325	12	14°547	5°296
48970	16	14°116	18°550	49044	20	4°553	22°539					49326	11	15°029	5°885
48971	9	14°482	18°054	49045*	31	6°457	22°134					49327	10	15°081	5°503
48972	14	15°108	18°616	49046*	27	8°773	22°605					49328	11	15°163	5°079
48973	11	16°504	18°820	49047*	36	9°987	22°221					49329	22	15°249	5°760
48974	13	17°539	18°018	49048	8	10°013	22°423					49330	23	17°590	5°292

R. A. 17^h 8^m

Plate 2835 ; 1910 May 7.

Provisional Constants.

A	B	C
-00017	-00756	+2497

D	E	F
+00715	-00051	-3320

Mag. = 16.3 - 1.25 √d

No.	d	x	y
49201	18	4°080	0°953
49202	31	6°147	0°667
49203	22	6°220	0°317
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49205	18	7°943	0°674
49206	24	8°560	0°391
49207	13	10°266	0°268
49208*	39	11°934	0°451
49209	11	12°407	0°529
49210	13	12°490	0°622
49211	28	14°169	0°255
49212	26	14°682	0°151
49213*	35	14°744	0°680
49214	24	14°757	0°742
49215	9	15°910	0°254
49216*	34	18°310	0°968
49217	33	19°232	0°452
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49219	15	22°894	0°797
49220	12	0°985	1°813
49221	15	2°407	1°576
49222	12	6°752	1°049
49223	13	7°716	1°056
49224	10	8°341	1°018
49225	10	10°526	1°914
49226	11	11°594	1°653
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49228	7	12°395	1°119
49229	9	13°030	1°616
49230	12	13°519	1°748
49231	18	16°753	1°604
49232	12	17°326	1°752
49233	10	17°478	1°989
49234	23	20°319	1°470
49235	10	23°382	1°293
49236	9	1°739	2°294
49237	40	2°752	2°774
49238	15	3°801	2°745
49239	19	4°477	2°782
49240	12	6°862	2°292
49241	10	6°912	2°211
49242*	34	7°831	2°676
49243	14	8°052	2°090
49244	9	9°067	2°078
49245	12	11°274	2°193
49246	11	12°775	2°100
49247	18	12°880	2°362
49248	12	13°438	2°288
49249	8	14°619	2°298
49250	8	15°931	2°924
49251	11	17°521	2°866
49252	9	19°517	2°789
49253	16	20°389	2°682
49254	13	20°988	2°256
49255	11	21°340	2°223
49256	20	21°913	2°708

49331	11	17°18	5°697	49405	16	13°52	8°081	49479	18	15°489	10°966	49553	9	25°502	12°108	49627	7	16°074	15°659
49332	12	19°044	5°872	49406	10	14°418	8°927	49480	7	16°046	10°692	49554	15	2°661	13°708	49628	9	19°074	15°722
49333	10	19°194	5°521	49407	9	14°630	8°663	49481	15	17°629	10°012	49555	12	3°368	13°047	49629	7	19°191	15°121
49334	16	19°408	5°495	49408	20	14°953	8°729	49482	10	17°927	10°856	49556	12	4°291	13°545	49630	9	19°582	15°602
49335	11	19°840	5°845	49409	7	15°474	8°521	49483	11	18°472	10°065	49557	18	4°340	13°318	49631	19	19°728	15°180
49336	10	19°933	5°436	49410	10	15°619	8°122	49484	12	19°740	10°603	49558	11	4°760	13°531	49632	21	21°249	15°901
49337	9	20°908	5°899	49411	11	15°660	8°246	49485	9	21°061	10°745	49559	18	5°311	13°736	49633	10	21°815	15°536
49338	25	21°113	5°534	49412	10	16°894	8°165	49486	10	21°126	10°289	49560	9	6°500	13°337	49634	18	21°827	15°837
49339	21	23°426	5°327	49413	10	17°325	8°842	49487	13	21°302	10°501	49561	12	6°564	13°841	49635	8	22°592	15°766
49340	12	25°473	5°872	49414	10	18°527	8°708	49488	10	21°675	10°766	49562	7	7°256	13°870	49636	10	23°176	15°871
49341	8	2°659	6°659	49415	9	18°700	8°564	49489*	30	22°146	10°871	49563	20	8°079	13°906	49637	11	23°385	15°857
49342	20	2°960	6°928	49416	9	18°968	8°929	49490	19	24°414	10°774	49564	20	8°447	13°042	49638	10	25°541	15°581
49343	19	3°102	6°497	49417	10	19°975	8°862	49491	12	25°118	10°565	49565	24	8°928	13°289	49639	17	25°590	15°016
49344	6	5°317	6°044	49418	21	20°827	8°674	49492	8	0°499	11°666	49566	9	9°642	13°622	49640	10	0°309	16°569
49345*	38	5°769	6°940	49419	9	21°071	8°572	49493*	26	0°920	11°579	49567	10	10°520	13°623	49641	21	2°753	16°953
49346	22	6°706	6°318	49420	28	21°313	8°603	49494	23	1°340	11°677	49568	13	10°835	13°535	49642	13	7°172	16°815
49347	18	6°988	6°090	49421	12	23°681	8°135	49495	24	1°593	11°001	49569	16	11°131	13°809	49643	12	9°649	16°507
49348	11	8°074	6°564	49422	11	23°682	8°923	49496	11	1°694	11°241	49570	20	11°791	13°785	49644	19	11°328	16°295
49349	12	8°431	6°550	49423	17	23°937	8°999	49497*	27	3°109	11°200	49571	9	12°653	13°594	49645	10	11°768	16°126
49350	10	11°923	6°785	49424	10	25°742	8°908	49498	12	3°287	11°991	49572	12	13°116	13°163	49646	19	12°762	16°729
49351	10	12°657	6°762	49425*	52	1°281	9°266	49499	11	4°224	11°904	49573	11	14°949	13°414	49647	8	15°441	16°160
49352	25	12°692	6°718	49426	7	2°333	9°394	49500	9	6°093	11°901	49574	9	16°250	13°254	49648	7	16°075	16°171
49353	10	17°072	6°367	49427	12	5°375	9°099	49501	10	6°125	11°791	49575	10	16°675	13°055	49649	10	16°602	16°920
49354	20	18°158	6°073	49428	18	5°838	9°457	49502	8	8°876	11°848	49576	20	16°698	13°173	49650	11	18°846	16°265
49355	22	18°342	6°772	49429	11	6°557	9°132	49503	10	9°437	11°779	49577	9	16°990	13°785	49651	16	18°938	16°213
49356	20	18°363	6°098	49430	14	6°783	9°100	49504*	23	9°679	11°248	49578	9	17°033	13°194	49652	28	19°020	16°480
49357	18	19°559	6°872	49431	20	8°643	9°005	49505	10	10°453	11°059	49579	10	17°385	13°088	49653	11	19°124	16°524
49358	12	19°627	6°576	49432	21	9°348	9°477	49506*	20	10°860	11°535	49580	20	17°929	13°003	49654	10	19°256	16°645
49359	10	20°793	6°615	49433	12	9°785	9°349	49507	20	11°322	11°944	49581	27	19°855	13°764	49655	7	19°439	16°555
49360	11	22°332	6°735	49434	10	9°997	9°589	49508	10	15°434	11°827	49582	9	20°000	13°372	49656	20	20°407	16°139
49361	20	24°004	6°713	49435	10	10°745	9°245	49509	12	16°409	11°522	49583	9	21°188	13°405	49657	20	20°778	16°216
49362	12	0°620	7°818	49436	7	10°783	9°790	49510	8	17°247	11°154	49584	10	21°539	13°930	49658	10	21°811	16°076
49363	11	2°932	7°574	49437	10	10°916	9°828	49511	10	17°786	11°653	49585	7	21°570	13°050	49659	11	22°396	16°799
49364	20	3°518	7°136	49438	12	12°347	9°016	49512	8	17°848	11°493	49586*	29	22°750	13°600	49660	19	22°689	16°702
49365	19	3°827	7°033	49439	11	12°764	9°320	49513	20	17°910	11°859	49587	25	0°043	14°156	49661	10	23°412	16°590
49366	18	4°822	7°906	49440	8	13°200	9°043	49514	17	18°104	11°142	49588	27	1°911	14°429	49662	10	23°418	16°874
49367	22	5°011	7°851	49441	9	13°451	9°719	49515	7	18°579	11°668	49589	11	2°094	14°523	49663	7	23°575	16°631
49368	7	5°115	7°523	49442	12	14°372	9°770	49516	23	20°804	11°505	49590	8	4°583	14°032	49664	21	23°650	16°393
49369	14	5°721	7°710	49443	8	15°221	9°331	49517	21	20°908	11°861	49591	11	5°351	14°621	49665	11	23°825	16°504
49370	19	6°014	7°687	49444	10	15°300	9°371	49518	11	23°223	11°494	49592	10	6°669	14°268	49666	12	23°857	16°459
49371	7	7°054	7°751	49445	9	15°734	9°678	49519	13	23°644	11°046	49593	10	6°910	14°415	49667	11	24°135	16°691
49372	12	9°308	7°863	49446	12	16°233	9°846	49520	22	23°948	11°356	49594	18	8°035	14°955	49668	14	1°276	17°656
49373	9	9°606	7°212	49447	15	18°209	9°768	49521	19	24°155	11°919	49595	8	8°252	14°587	49669	10	1°942	17°121
49374	19	10°289	7°493	49448	11	19°256	9°959	49522	10	24°973	11°553	49596	7	8°264	14°765	49670	9	2°135	17°138
49375	8	13°652	7°001	49449	7	19°787	9°661	49523	11	25°056	11°802	49597	11	8°499	14°786	49671	21	2°854	17°967
49376	9	14°041	7°188	49450	27	19°808	9°906	49524	26	0°152	12°575	49598	10	9°135	14°179	49672	16	3°325	17°803
49377	12	14°534	7°065	49451	9	21°642	9°638	49525	20	0°263	12°750	49599	12	10°459	14°758	49673	20	5°533	17°305
49378	8	16°106	7°434	49452	12	21°836	9°049	49526	20	2°634	12°799	49600	8	11°722	14°449	49674	20	6°259	17°952
49379	13	16°685	7°053	49453	11	23°695	9°667	49527	11	3°528	12°650	49601	11	13°659	14°420	49675	7	6°325	17°237
49380	12	17°634	7°733	49454	19	23°728	9°669	49528	6	5°882	12°136	49602	10	14°630	14°662	49676	12	8°847	17°033
49381	12	18°951	7°350	49455	11	25°335	9°010	49529	7	6°033	12°280	49603	10	14°841	14°784	49677*	21	9°286	17°529
49382	9	19°500	7°735	49456	9	25°979	9°734	49530	10	6°963	12°040	49604	9	15°162	14°557	49678*	10	9°441	17°046
49383	9	19°510	7°558	49457	18	1°323	10°881	49531	12	7°319	12°789	49605*	41	15°951	14°031	49679	8	10°181	17°518
49384	12	20°587	7°678	49458	12	3°143	10°574	49532	15	7°556	12°020	49606	9	16°074	14°280	49680	21	10°687	17°489
49385	11	21°354	7°137	49459	9	3°425	10°133	49533	11	10°712	12°378	49607	11	17°805	14°552	49681	8	11°402	17°119
49386	7	21°635	7°198	49460	28	4°099	10°114	49534	10	11°220	12°077	49608	23	19°020	14°754	49682	19	12°028	17°649
49387	13	23°114	7°954	49461	11	4°397	10°644	49535	10	12°240	12°951	49609	11	19°033	14°766	49683	11	12°367	17°230
49388	11	23°922	7°129	49462	9	5°823	10°238	49536	14	12°586	12°554	49610	9	19°664	14°854	49684	10	12°865	17°432
49389	12	24°047	7°327	49463	7	6°629	10°703	49537	11	12°665	12°454	49611	10	20°324	14°435	49685*	38	13°166	17°166
49390	19	25°224	7°395	49464	13	6°709	10°826	49538	10	16°901	12°481	49612	18	20°706	14°471	49686	11	14°043	17°430
49391	28	25°307	7°350	49465	8	8°896	10°985	49539	11	17°817	12°706	49613	23	21°555	14°274	49687	11	15°018	17°259
49392	11	25°776	7°974	49466	10	9°132	10°368	49540	10	19°606	12°973	49614	18	22°004	14°442	49688	19	15°797	17°966
49393	19	1°867	8°487	49467	11	10°304	10°189	49541	15	19°988	12°328	4961							

49701*	36	1730	18790	49775	10	1729	20528	49849	11	11510	23232	50057	11	23639	4322
49702	13	3097	18684	49776	8	2205	20910	49850	10	12540	23323	50058	22	1644	5208
49703	11	4877	18415	49777	16	2688	20366	49851	21	13232	23396	50059	11	3698	5729
49704	10	5012	18173	49778	11	3355	20761	49852	22	15074	23247	50060	9	5637	5936
49705	13	6688	18756	49779	10	3708	20690	49853	18	15587	23148	50061	10	7568	5903
49706	9	6890	18078	49780	10	3947	20428	49854	10	15626	23339	50062	11	11045	5831
49707	15	7147	18403	49781	12	9545	20493	49855	12	17731	23179	50063	29	11256	5128
49708	9	7543	18072	49782	11	10634	20218	49856	10	17820	23967	50064	8	14817	5148
49709	14	7969	18091	49783	10	12716	20848	49857	20	18208	23697	50065	11	14976	5955
49710	11	8883	18709	49784	11	16685	20405	49858	10	18750	23977	50066	12	15812	5157
49711	13	9522	18129	49785	12	19311	20170	49859	30	22866	23979	50067	20	15837	5179
49712	7	9694	18273	49786	20	19424	20648	49860	20	22987	23948	50068	8	17634	5256
49713	12	9855	18867	49787	9	19964	20136	49861	9	23020	23417	50069	20	18027	5980
49714	19	10146	18709	49788	12	20167	20323	49862	12	24340	23171	50070	12	18392	5384
49715	10	10452	18853	49789	11	21023	20320	49863	6	24499	23018	50071	10	18466	5095
49716	10	12477	18617	49790	20	21912	20036	49864	16	2138	24788	50072	11	21644	5234
49717	8	12491	18666	49791	9	23037	20352	49865	33	6193	24715	50073	18	22444	5839
49718	17	12710	18124	49792	11	23529	20934	49866	11	8322	24631	50074	11	0569	6631
49719	23	12832	18205	49793	12	24042	20732	49867	10	9819	24103	50075	20	2243	6588
49720	11	14265	18816	49794	13	24190	20310	49868	11	10015	24794	50076	19	4834	6297
49721	10	16085	18266	49795	20	24361	20992	49869	13	11327	24012	50077	9	4837	6271
49722	9	16475	18150	49796	11	3362	21981	49870	10	11834	24089	50078	20	5194	6060
49723	9	16603	18414	49797	18	6666	21815	49871	18	14327	24985	50079	5	5492	6245
49724	9	16672	18287	49798	24	8826	21154	49872	29	14762	24702	50080	12	5556	6423
49725	13	17741	18747	49799	10	10118	21472	49873	10	15598	24285	50081	19	6593	6651
49726	8	17745	18179	49800	10	11186	21654	49874	12	17047	24541	50082	11	9233	6334
49727	21	17963	18216	49801	9	11321	21995	49875	10	17965	24704	50083	12	9502	6006
49728	22	18282	18803	49802	10	12174	21703	49876	19	18005	24041	50084	9	9658	6293
49729	8	19343	18974	49803	12	12301	21346	49877	12	19281	24239	50085	10	10885	6801
49730	23	19900	18490	49804	9	13816	21005	49878	9	22572	24554	50086	8	11233	6594
49731	16	20514	18397	49805	8	14264	21106	49879*	42	23051	24189	50087	19	11822	6182
49732	21	20599	18328	49806	20	15395	21181	49880	18	24356	24252	50088	21	12444	6029
49733	12	20697	18319	49807	20	15950	21226	49881	24	1410	25847	50089	7	12913	6714
49734	9	21081	18778	49808	13	16284	21613	49882	28	1647	25528	50090	8	13102	6100
49735	13	22110	18251	49809	9	17038	21357	49883	11	6574	25269	50091	14	13541	6914
49736	11	22781	18849	49810	18	17977	21652	49884	21	6917	25300	50092	7	13550	6372
49737	10	25126	18669	49811	11	18753	21639	49885	9	6926	25885	50093	10	13753	6431
49738	15	2699	19956	49812	15	19888	21737	49886	19	10227	25111	50094	10	13961	6204
49739	34	2743	19065	49813	10	20672	21604	49887	10	10882	25757	50095	12	14361	6257
49740	19	3340	19666	49814	18	20996	21366	49888	26	11859	25278	50096	9	16014	6496
49741	10	5511	19364	49815*	43	23811	21029	49889	23	13732	25983	50097	9	17055	6653
49742	15	5782	19825	49816	19	25884	21995	49890	10	14068	25043	50098	10	17303	6449
49743	6	5971	19356	49817	11	2808	22715	49891	18	14613	25344	50099	9	17312	6688
49744	13	6457	19248	49818	13	3226	22600	49892	22	15283	25188	50100	11	18096	6013
49745	15	7546	19801	49819	17	4387	22053	49893	21	16642	25755	50101	21	20101	6169
49746	10	9061	19576	49820	20	5562	22287	49894	24	16791	25102	50102	30	21396	6097
49747	10	11190	19460	49821*	33	6003	22698	49895	10	17066	25264	50103	12	21965	6390
49748	10	11867	19222	49822	7	7501	22373	49896	19	17129	25180	50104	11	22868	6903
49749	15	12725	19276	49823	12	7563	22483	49897	11	18847	25132	50105	10	24731	6714
49750	16	12771	19686	49824	17	7797	22831	49898	22	19694	25892	50106	14	25139	6499
49751	9	13577	19518	49825*	24	7808	22109	49899	14	20076	25138	50107	10	25240	6512
49752	25	13791	19766	49826	11	8219	22099	49900	19	21426	25909	50108	11	1368	7841
49753	16	14306	19048	49827	19	8610	22823	49901	11	22164	25013	50109	22	3471	7254
49754	7	15726	19065	49828	11	10205	22079	49902	10	24137	25954	50110	26	3555	7209
49755	11	16183	19280	49829	9	14287	22402					50111	10	4030	7826
49756	15	17377	19099	49830	12	14320	22115					50112	19	4829	7112
49757	11	17418	19910	49831	11	15523	22351					50113	19	5690	7888
49758	8	17792	19738	49832	19	17539	22307					50114	9	6447	7729
49759	10	17901	19391	49833	12	19086	22634					50115	12	7631	7932
49760	12	18304	19438	49834	8	19629	22774					50116	17	8852	7769
49761	20	18418	19500	49835	20	19718	22818					50117	17	9472	7124
49762	10	18658	19593	49836	10	20468	22565					50118	9	10022	7835
49763	11	20137	19342	49837	6	21595	22924					50119	10	10143	7149
49764	12	20414	19286	49838	12	23867	22118					50120	11	11454	7268
49765	9	20481	19607	49839	44	0027	23200					50121	16	11772	7539
49766	13	20567	19069	49840	23	0073	23244					50122	15	12391	7326
49767	11	20958	19107	49841	17	2700	23176					50123	19	14898	7455
49768	9	21818	19617	49842	15	5672	23404					50124	10	15010	7244
49769	12	22077	19834	49843	25	6154	23872					50125	14	16206	7121
49770	18	22086	19187	49844	16	9045	23311					50126	7	16697	7814
49771*	25	25034	19352	49845	10	10620	23264					50127	14	16726	7148
49772	25	25107	19259	49846	25	10707	23433					50128	12	20036	7632
49773	12	1002	20830	49847	12	11111	23315					50129	11	20235	7836
49774	11	1015	20423	49848	29	11410	23838					50130	30	20599	7605

R. A. 17^h 16^m

Plate 2838; 1910 May 8.

Provisional Constants.

$$\begin{array}{ccc}
 A & B & C \\
 -00041 & -00866 & +3353 \\
 D & E & F \\
 +00826 & -00028 & -3060
 \end{array}$$

$$\text{Mag.} = 16.4 - 1.25 \sqrt{d}$$

No.	d	x	y
50001	31	7.178	0.699
50002	29	9.257	0.799
50003	11	11.793	0.236
50004	10	6.931	1.500
50005	10	12.389	1.783
50006	27	14.146	1.175
50007	25	14.630	1.357
50008	9	16.786	1.576
50009	12	19.587	1.636
50010	22	19.964	1.863
50011	21	22.613	1.970
50012	10	22.724	1.806
50013	20	25.785	1.540
50014	17	25.884	1.645
50015	20	0.091	2.601
50016	13	2.030	2.863
50017	10	2.235	2.408
50018	11	5.449	2.302
50019	28	6.931	2.107
50020	9	7.994	2.702
50021	11	8.637	2.751
50022	18	9.038	2.750
50023	10	9.079	2.749
50024	7	9.103	2.340
50025	17	11.578	2.911
50026	20	12.879	2.263
50027	11	13.292	2.473
50028	10	13.763	2.290
50029	27	14.659	2.997
50030	18	15.871	2.857
50031	24	16.838	2.814
50032	8	17.042	2.330
50033	21	18.601	2.645
50034	22	21.689	2.414
50035	7	22.402	2.801
50036	18	24.841	2.639
50037	12	6.043	3.498
50038	18	12.337	3.462
50039	19	16.985	3.001
50040	16	17.324	3.182
50041*	36	19.995	3.054
50042	10	20.854	3.318
50043	28	21.255	3.999
50044	19	23.181	3.238
50045	29	1.829	4.810
50046	36	2.705	4.495
50047	10	13.300	4.805
50048	11	14.251	4.774
50049	9	14.336	4.635
50050	5	16.008	4.525
50051	18	16.885	4.936
50052	11	17.716	4.208
50053	20	17.949	4.052
50054	10	20.462	4.491
50055	19	22.260	4.705
50056	18	23.053	4.154

50131	10	21°17'2	7°744	50205	11	6°676	10°449	50279	12	23°593	12°177	50353	31	6°896	15°846	50427	20	23°006	17°401
50132	11	21°429	7°991	50206	12	8°027	10°790	50280*	37	1°082	13°493	50354*	19	7°902	15°253	50428	13	0°507	18°154
50133	32	22°460	7°043	50207	10	10°414	10°629	50281	19	5°064	13°919	50355	11	8°398	15°197	50429	10	3°529	18°530
50134	11	23°403	7°072	50208	10	12°973	10°657	50282	12	6°087	13°928	50356	12	9°124	15°485	50430	10	4°834	18°914
50135	20	23°803	7°940	50209	19	16°439	10°875	50283	17	7°563	13°237	50357	8	9°205	15°686	50431	7	4°837	18°136
50136	10	25°654	7°666	50210	12	18°092	10°927	50284	21	7°602	13°273	50358	10	9°619	15°262	50432*	45	5°755	18°797
50137	6	0°104	8°952	50211	8	19°492	10°146	50285	15	7°815	13°102	50359	12	10°789	15°794	50433*	31	7°521	18°904
50138	11	1°937	8°014	50212	17	20°917	10°208	50286	9	8°617	13°810	50360	11	10°947	15°308	50434	11	7°594	18°652
50139	10	1°951	8°802	50213	15	24°989	10°816	50287	17	8°679	13°940	50361	13	11°326	15°102	50435	10	7°778	18°514
50140	15	2°204	8°876	50214	11	1°526	11°379	50288	11	9°967	13°732	50362	6	12°371	15°444	50436	13	8°446	18°828
50141	10	3°602	8°868	50215	11	1°889	11°919	50289	10	10°983	13°474	50363	9	16°238	15°099	50437	12	8°760	18°237
50142	10	4°011	8°761	50216	26	2°250	11°234	50290	11	12°642	13°941	50364	8	16°682	15°951	50438	11	8°943	18°354
50143	22	5°000	8°334	50217	19	2°464	11°793	50291	10	13°078	13°586	50365	19	17°270	15°232	50439	12	10°560	18°718
50144	13	5°398	8°485	50218	8	3°276	11°414	50292	10	13°132	13°384	50366	10	17°457	15°500	50440	16	10°609	18°820
50145	8	5°431	8°489	50219	8	3°364	11°662	50293	9	13°771	13°634	50367	10	18°961	15°956	50441	11	10°978	18°759
50146	19	6°108	8°380	50220	8	3°811	11°962	50294	12	13°779	13°216	50368	12	19°045	15°024	50442	22	11°058	18°326
50147	21	6°332	8°156	50221	12	5°943	11°940	50295	14	13°938	13°219	50369	8	19°278	15°133	50443	12	12°721	18°084
50148	10	6°514	8°877	50222	13	6°657	11°731	50296	10	14°230	13°674	50370	19	19°373	15°667	50444	7	14°838	18°198
50149	11	7°277	8°460	50223	9	7°745	11°628	50297	10	14°378	13°806	50371	13	21°084	15°715	50445	9	15°126	18°222
50150	10	8°522	8°785	50224	18	8°533	11°610	50298	11	14°787	13°470	50372	7	21°357	15°400	50446	8	15°450	18°620
50151	10	8°627	8°826	50225	9	9°148	11°183	50299	19	14°929	13°142	50373	9	21°532	15°793	50447	17	15°949	18°938
50152	11	11°348	8°476	50226	13	10°367	11°325	50300	8	15°800	13°007	50374	10	22°951	15°628	50448	21	16°479	18°147
50153	13	11°400	8°985	50227	19	10°990	11°212	50301	6	16°693	13°438	50375	11	25°200	15°963	50449	10	16°713	18°495
50154	15	11°477	8°158	50228*	34	12°378	11°753	50302	11	17°637	13°919	50376	10	25°758	15°993	50450	9	17°334	18°344
50155	10	11°774	8°928	50229	8	13°806	11°159	50303	9	17°839	13°922	50377	11	0°771	16°697	50451	6	18°410	18°148
50156	12	11°779	8°676	50230	10	13°903	11°138	50304	8	18°278	13°078	50378	21	1°063	16°594	50452	20	19°549	18°866
50157	18	14°022	8°539	50231	10	15°249	11°283	50305	11	18°654	13°689	50379	24	2°020	16°274	50453	11	19°759	18°046
50158*	83	15°399	8°011	50232	8	15°986	11°290	50306	11	19°490	13°238	50380	10	2°197	16°381	50454*	20	21°929	18°973
50159	11	15°660	8°764	50233*	29	15°999	11°218	50307	14	19°563	13°208	50381	11	2°228	16°336	50455	9	23°710	18°080
50160*	34	16°008	8°423	50234	8	16°083	11°116	50308	9	19°694	13°311	50382	11	2°511	16°564	50456	19	23°923	18°657
50161	10	17°316	8°325	50235	20	17°548	11°224	50309	20	20°052	13°215	50383	22	4°747	16°217	50457	9	25°108	18°521
50162	20	17°550	8°097	50236	11	18°657	11°548	50310	18	20°293	13°999	50384	10	8°510	16°078	50458	23	0°332	19°940
50163	10	17°832	8°104	50237	8	19°269	11°558	50311	9	21°958	13°698	50385	10	8°943	16°715	50459	15	0°493	19°088
50164	9	18°108	8°752	50238	16	19°273	11°069	50312	15	22°949	13°462	50386	11	10°022	16°379	50460	13	0°494	19°738
50165	10	18°409	8°825	50239	11	19°357	11°555	50313	17	0°349	14°345	50387	22	11°556	16°093	50461*	26	3°446	19°213
50166	11	18°454	8°892	50240	18	20°339	11°407	50314	24	1°073	14°337	50388	18	11°557	16°325	50462	22	3°518	19°119
50167	10	18°989	8°215	50241	8	20°852	11°379	50315	12	3°658	14°824	50389	11	11°601	16°316	50463	20	6°734	19°149
50168	10	19°203	8°241	50242	9	21°073	11°396	50316	18	3°943	14°871	50390	10	12°418	16°575	50464	23	6°827	19°935
50169	11	20°184	8°862	50243	11	22°012	11°831	50317	11	4°804	14°452	50391	8	13°049	16°639	50465	14	7°811	19°868
50170	9	21°219	8°941	50244	10	22°857	11°875	50318	20	5°042	14°296	50392	9	13°109	16°555	50466	7	7°986	19°087
50171*	23	22°823	8°274	50245	8	22°968	11°423	50319*	35	5°770	14°356	50393	10	17°735	16°139	50467	19	8°181	19°523
50172	11	22°949	8°187	50246	17	24°232	11°842	50320	22	5°803	14°448	50394	10	18°441	16°602	50468	7	9°120	19°706
50173	9	25°537	8°981	50247	11	24°254	11°236	50321	9	6°367	14°926	50395	11	18°919	16°749	50469	9	9°143	19°101
50174	18	2°007	9°548	50248	10	24°631	11°778	50322	11	6°571	14°749	50396	5	20°582	16°728	50470	10	9°568	19°972
50175	10	5°370	9°509	50249	12	25°542	11°981	50323	13	7°494	14°110	50397	9	23°160	16°333	50471	18	10°524	19°217
50176*	31	5°463	9°466	50250	22	0°054	12°167	50324	12	8°386	14°043	50398	10	25°779	16°130	50472*	24	12°053	19°199
50177	9	6°758	9°313	50251	10	1°864	12°769	50325	8	8°538	14°612	50399	18	0°089	17°557	50473	7	12°254	19°102
50178	8	7°594	9°185	50252	24	1°972	12°425	50326	9	8°603	14°079	50400	12	1°324	17°328	50474	18	12°987	19°335
50179	10	8°183	9°591	50253	16	5°441	12°462	50327	20	8°878	14°042	50401*	26	2°166	17°301	50475	7	13°254	19°710
50180	30	8°207	9°473	50254	10	5°471	12°740	50328	11	9°553	14°408	50402	14	2°183	17°312	50476	9	13°338	19°884
50181	13	9°189	9°296	50255	8	6°093	12°934	50329	10	9°991	14°237	50403	7	2°412	17°339	50477	16	13°363	19°016
50182	14	11°201	9°071	50256	16	7°780	12°407	50330	8	10°289	14°323	50404	13	5°934	17°871	50478	8	16°306	19°948
50183	23	12°651	9°823	50257	7	8°646	12°402	50331	10	11°844	14°840	50405	14	6°215	17°317	50479	9	17°362	19°903
50184	8	12°825	9°219	50258	7	8°689	12°001	50332	10	12°641	14°262	50406	11	6°828	17°484	50480*	23	17°649	19°232
50185	9	12°896	9°004	50259	8	9°446	12°027	50333	10	13°826	14°784	50407	10	7°401	17°193	50481	9	17°716	19°384
50186	10	13°346	9°009	50260	11	9°807	12°631	50334	9	13°973	14°073	50408	13	9°086	17°258	50482	12	17°935	19°577
50187	10	14°403	9°922	50261	8	10°338	12°522	50335	11	14°304	14°225	50409	10	10°408	17°436	50483	7	18°252	19°396
50188	13	14°566	9°611	50262	32	11°319	12°901	50336	23	15°056	14°066	50410	29	10°801	17°539	50484	10	18°364	19°356
50189	8	15°137	9°131	50263	10	12°643	12°476	50337	9	16°668	14°143	50411	6	11°089	17°593	50485*	34	18°501	19°027
50190	10	16°072	9°806	50264	9	12°924	12°775	50338	9	16°792	14°831	50412	8	12°154	17°792	50486	12	19°889	19°910
50191	18	16°289	9°624	50265	9	14°484	12°207	50339	8	17°343	14°291	50413	9	14°267	17°631	50487	9	20°368	19°496
50192	16	17°387	9°235	50266	18	14°665	12°378	50340	11	17°718	14°719	50414	9	14°786	17°886	50488	7	20°712	19°347
50193	10	22°114	9°886	50267	9	14°976	12°213	50341	11	17									

50501	17	8.992	20.459	50575	20	10.217	23.033	50757*	29	7.825	5.505	50831*	26	20.895	11.355
50502	14	9.335	20.165	50576	9	11.468	23.028	50758	6	10.881	5.086	50832	6	22.899	11.927
50503	17	9.687	20.642	50577	16	11.813	23.047	50759	8	11.434	5.482	50833	18	25.365	11.773
50504	11	10.463	20.267	50578	13	11.969	23.111	50760	6	13.949	5.195	50834	5	1.397	12.222
50505	10	11.378	20.742	50579	11	12.881	23.343	50761	8	17.479	5.418	50835	5	4.376	12.556
50506	18	11.687	20.878	50580	16	13.347	23.168	50762	5	17.862	5.145	50836	10	6.306	12.006
50507	7	12.041	20.612	50581	18	13.623	23.629	50763	23	22.646	5.809	50837	6	10.469	12.889
50508	10	12.336	20.407	50582	6	14.286	23.606	50764	7	23.205	5.238	50838	9	14.914	12.984
50509*	81	13.395	20.468	50583	10	14.491	23.616	50765	5	25.907	5.883	50839*	18	16.944	12.015
50510	11	13.506	20.216	50584	11	15.822	23.177	50766	5	2.784	6.504	50840	14	17.475	12.425
50511	6	13.591	20.277	50585	9	15.920	23.564	50767	6	4.382	6.105	50841*	15	19.005	12.295
50512	10	14.568	20.985	50586	8	16.800	23.881	50768	5	4.880	6.314	50842	8	19.254	12.085
50513	9	14.744	20.608	50587	20	17.649	23.994	50769	5	8.437	6.893	50843*	19	23.137	12.165
50514	10	16.406	20.786	50588	10	18.181	23.504	50770	6	10.758	6.850	50844	12	23.215	12.075
50515	12	17.193	20.521	50589	13	18.408	23.145	50771	8	13.483	6.786	50845	6	25.872	12.764
50516	9	20.969	20.540	50590	17	18.621	23.783	50772	7	17.078	6.596	50846	7	0.788	13.525
50517	19	22.880	20.832	50591*	46	21.417	23.051	50773	7	18.093	6.974	50847	5	4.196	13.065
50518	15	23.003	20.545	50592	11	21.888	23.167	50774	22	22.802	6.486	50848	10	7.335	13.325
50519	6	23.251	20.540	50593	20	25.146	23.361	50775	10	23.380	6.486	50849*	30	7.554	13.982
50520*	25	23.900	20.906	50594	10	25.991	23.611	50776	5	25.457	6.145	50850*	7	7.625	13.784
50521	8	24.384	20.047	50595*	51	1.528	24.078	50777	11	25.532	6.677	50851	8	7.798	13.055
50522	12	25.089	20.569	50596	12	2.837	24.119	50778	20	0.115	7.118	50852	10	10.936	13.896
50523	10	2.317	21.994	50597*	70	5.358	24.534	50779	8	1.485	7.977	50853*	9	11.320	13.826
50524	20	4.334	21.843	50598	20	7.284	24.440	50780	12	4.745	7.914	50854*	6	16.770	13.454
50525	14	4.587	21.894	50599	19	7.840	24.018	50781	10	8.575	7.917	50855*	26	16.937	13.293
50526	16	5.212	21.630	50600	11	8.043	24.459	50782	5	8.734	7.710	50856	14	19.083	13.560
50527	15	6.256	21.994	50601	20	8.782	24.171	50783	14	9.937	7.225	50857	6	19.906	13.204
50528*	23	7.579	21.233	50602	10	11.219	24.568	50784	12	12.122	7.615	50858*	12	24.257	13.750
50529	13	9.518	21.570	50603*	21	11.713	24.207	50785	6	16.604	7.288	50859	5	0.763	14.554
50530	18	9.861	21.462	50604*	12	11.844	24.635	50786	6	16.685	7.431	50860	6	3.539	14.737
50531	7	10.368	21.758	50605	13	13.172	24.808	50787	7	20.035	7.505	50861	5	5.251	14.690
50532	10	10.687	21.953	50606	11	13.471	24.233	50788	14	20.345	7.640	50862	6	5.936	14.825
50533	7	11.531	21.716	50607	10	14.840	24.578	50789	5	21.546	7.164	50863	6	6.471	14.684
50534	13	11.614	21.671	50608	9	16.693	24.776	50790	5	25.719	7.055	50864*	21	17.857	14.535
50535	21	12.979	21.419	50609	13	16.825	24.614	50791*	14	0.514	8.340	50865	8	18.047	14.308
50536*	36	13.112	21.512	50610	19	19.176	24.756	50792	10	6.564	8.545	50866	7	25.059	14.003
50537	10	13.357	21.768	50611	13	20.419	24.375	50793	7	10.561	8.608	50867	6	25.510	14.132
50538	20	13.635	21.552	50612	20	22.359	24.397	50794	12	11.545	8.060	50868	12	4.229	15.953
50539	12	13.703	21.253	50613	8	25.346	24.885	50795	10	14.738	8.986	50869	11	4.624	15.797
50540	11	15.437	21.257	50614	17	6.413	25.126	50796	10	19.800	8.185	50870	7	4.897	15.103
50541	10	16.928	21.501	50615	11	7.902	25.524	50797	7	0.625	9.871	50871	20	5.093	15.435
50542	11	19.782	21.716	50616	26	8.190	25.711	50798	5	1.922	9.899	50872	14	6.409	15.169
50543	22	20.766	21.232	50617	20	9.457	25.844	50799	18	3.889	9.841	50873	6	6.884	15.515
50544	23	21.041	21.127	50618	10	12.458	25.549	50800	7	4.616	9.033	50874*	10	6.937	15.462
50545	10	22.234	21.837	50619	8	14.503	25.588	50801	10	5.115	9.005	50875	10	10.966	15.685
50546	21	23.140	21.725	50620	11	15.881	25.450	50802	8	9.908	9.803	50876*	12	11.044	15.321
50547	8	23.305	21.080	50621*	48	16.607	25.652	50803	11	11.800	9.075	50877	11	11.156	15.869
50548	9	23.379	21.433	50622	18	16.989	25.685	50804	10	14.112	9.651	50878	5	12.460	15.565
50549	12	23.755	21.197	50623	17	17.634	25.684	50805	8	16.847	9.626	50879	7	12.490	15.204
50550	11	25.062	21.244	50624*	36	18.725	25.699	50806*	22	16.906	9.665	50880	7	16.177	15.550
50551	14	25.347	21.097	50625	12	20.600	25.140	50807	6	17.014	9.261	50881	6	17.566	15.572
50552	12	25.417	21.915	50626	11	24.375	25.770	50808	6	19.816	9.603	50882	11	18.755	15.054
50553*	27	25.566	21.113	50527	9	24.658	25.543	50809	5	20.240	9.715	50883	6	20.892	15.065
50554	10	7.814	22.092					50810	6	24.594	9.994	50884	10	22.561	15.782
50555	20	11.186	22.546					50811	7	25.904	9.241	50885	6	23.023	15.732
50556	10	13.041	22.289					50812	6	2.754	10.824	50886	20	4.386	16.255
50557	10	13.157	22.048					50813	7	3.785	10.010	50887*	22	5.411	16.584
50558*	40	16.292	22.507					50814	10	6.189	10.806	50888	16	9.688	16.852
50559	10	17.437	22.808					50815	8	7.473	10.575	50889	6	11.714	16.022
50560	10	17.868	22.384					50816	12	9.528	10.420	50890	7	13.175	16.076
50561	9	17.886	22.373					50817	10	9.725	10.255	50891	16	14.310	16.880
50562	9	17.921	22.019					50818	9	14.396	10.117	50892	14	14.725	16.735
50563	10	18.864	22.976					50819	6	14.450	10.764	50893*	11	22.864	16.465
50564	21	19.793	22.837					50820	10	17.428	10.325	50894*	14	22.923	16.544
50565	13	21.207	22.989					50821	7	17.9					

50905	9	25°035	17°935	50979	10	9°517	22°106	51117	7	12°796	1°563	51191*	45	15°505	7°878	51265	24	4°825	15°515
50906	10	1°914	18°689	50980	7	11°045	22°955	51118	7	16°162	1°854	51192	5	17°495	7°369	51266*	22	6°159	15°845
50907	16	8°542	18°744	50981	7	11°484	22°869	51119*	30	16°749	1°185	51193	14	18°014	7°080	51267	10	7°025	15°033
50908	9	8°891	18°507	50982	11	17°875	22°905	51120	6	18°704	1°395	51194	6	18°474	7°049	51268	11	7°195	15°175
50909	6	9°648	18°153	50983	9	18°010	22°005	51121	5	22°113	1°115	51195*	26	18°994	7°425	51269	12	10°984	15°746
50910	7	14°849	18°135	50984	10	23°352	22°126	51122	10	22°953	1°980	51196	8	4°865	8°222	51270	6	11°167	15°562
50911	8	15°186	18°674	50985	10	23°675	22°120	51123	9	23°454	1°053	51197	9	6°551	8°140	51271	7	14°211	15°883
50912	6	16°238	18°651	50986	21	24°330	22°072	51124	8	1°065	2°144	51198	10	10°261	8°358	51272	14	20°596	15°946
50913	13	19°944	18°830	50987*	34	24°790	22°418	51125	6	1°976	2°251	51199	12	10°966	8°345	51273	13	23°125	15°264
50914	11	19°971	18°873	50988	8	25°016	22°026	51126	8	4°325	2°870	51200	7	13°176	8°835	51274	6	23°967	15°683
50915	9	20°561	18°884	50989	11	25°957	22°331	51127	14	5°964	2°354	51201	8	20°075	8°739	51275	7	24°857	15°764
50916	8	23°290	18°025	50990	9	3°271	23°361	51128	8	7°795	2°846	51202	8	21°928	8°960	51276	14	25°204	15°995
50917	14	24°015	18°158	50991	9	11°097	23°454	51129	14	8°070	2°424	51203	6	24°509	8°056	51277*	12	1°585	16°565
50918	9	24°995	18°678	50992	10	12°455	23°923	51130	6	9°965	2°094	51204	15	24°598	8°150	51278*	14	1°646	16°645
50919	9	25°836	18°756	50993	9	14°196	23°849	51131	10	12°105	2°935	51205	6	24°766	8°562	51279	10	5°706	16°406
50920	10	0°824	19°268	50994	8	17°774	23°569	51132	6	15°205	2°488	51206	6	4°405	9°085	51280*	25	6°585	16°226
50921	6	1°704	19°886	50995	10	18°814	23°230	51133	12	18°110	2°659	51207	7	4°486	9°286	51281	17	7°580	16°412
50922	7	4°765	19°434	50996	8	22°145	23°715	51134	5	21°406	2°734	51208	12	5°109	9°063	51282	9	8°135	16°374
50923	8	5°974	19°155	50997	6	25°665	23°204	51135	6	21°464	2°265	51209	5	5°968	9°516	51283	6	9°617	16°470
50924	6	10°214	19°897	50998	6	0°513	24°475	51136	6	6°506	3°876	51210	6	6°810	9°424	51284	9	12°117	16°834
50925	5	15°106	19°590	50999	7	6°376	24°676	51137	8	8°785	3°657	51211	7	8°737	9°649	51285	20	12°426	16°816
50926	5	15°910	19°244	51000	14	9°615	24°283	51138	16	13°011	3°224	51212	8	14°788	9°435	51286	6	23°225	16°497
50927	6	17°941	19°405	51001	12	9°677	24°094	51139	10	13°436	3°484	51213	12	20°355	9°204	51287	11	24°174	16°414
50928	6	21°522	19°737	51002	5	9°704	24°324	51140	10	13°646	3°845	51214	12	22°760	9°165	51288	5	25°247	16°937
50929	5	21°694	19°346	51003	6	11°563	24°483	51141	6	20°040	3°801	51215	6	23°652	9°087	51289	12	2°536	17°153
50930	16	22°581	19°437	51004	14	12°265	24°072	51142	12	22°436	3°578	51216	15	2°436	10°943	51290	10	3°785	17°996
50931	10	23°709	19°574	51005	7	13°578	24°641	51143*	20	3°335	4°974	51217	5	2°648	10°355	51291	8	5°925	17°622
50932	6	23°996	19°847	51006	7	13°719	24°950	51144	7	3°519	4°590	51218	6	3°194	10°064	51292	5	8°657	17°480
50933	8	0°926	20°895	51007	10	17°293	24°952	51145	7	6°914	4°004	51219	6	8°025	10°015	51293	20	8°703	17°464
50934*	16	1°954	20°939	51008	5	4°504	25°899	51146	10	7°596	4°210	51220*	26	8°177	10°548	51294	10	10°495	17°055
50935	6	3°135	20°570	51009	7	4°873	25°952	51147	14	8°751	4°672	51221	7	20°860	10°263	51295	6	10°750	17°142
50936	9	4°770	20°488	51010	6	12°905	25°866	51148	6	8°825	4°883	51222	5	23°300	10°186	51296*	24	10°893	17°745
50937	20	6°550	20°531	51011	27	13°898	25°897	51149	8	10°684	4°773	51223	5	25°556	10°679	51297	6	12°353	17°644
50938	8	9°269	20°694	51012*	28	19°425	25°336	51150	10	10°725	4°186	51224	20	3°995	11°828	51298	9	15°075	17°844
50939	9	10°073	20°564	51013	10	24°066	25°408	51151	8	15°175	4°737	51225	8	11°186	11°260	51299*	29	16°854	17°285
50940	7	10°147	20°615					51152	9	17°624	4°563	51226	6	12°088	11°190	51300	6	17°122	17°122
50941	5	11°227	20°398					51153	23	1°167	5°915	51227	5	20°466	11°656	51301*	20	17°388	17°276
50942	12	17°500	20°541					51154	8	1°715	5°334	51228	6	22°577	11°634	51302*	28	20°697	17°086
50943	7	18°541	20°608					51155	7	5°865	5°364	51229	7	25°067	11°502	51303*	29	21°996	17°136
50944*	22	21°090	20°375					51156	21	6°642	5°685	51230	6	25°076	11°485	51304*	6	22°445	17°529
50945	6	21°148	20°093					51157	17	8°954	5°550	51231	5	1°535	12°027	51305*	12	22°724	17°444
50946	8	22°316	20°355					51158*	40	10°554	5°794	51232*	20	1°776	12°264	51306*	26	25°631	17°616
50947	16	23°163	20°615					51159*	25	11°805	5°219	51233	13	1°855	12°173	51307	8	2°036	18°117
50948*	24	23°750	20°271					51160	6	13°494	5°565	51234	7	4°524	12°813	51308	16	2°765	18°240
50949	6	24°823	20°814					51161	6	14°116	5°330	51235	14	7°354	12°646	51309	11	3°756	18°738
50950*	30	24°987	20°427					51162*	32	15°751	5°593	51236	8	20°126	12°681	51310	12	4°597	18°803
50951	14	1°215	21°782					51163*	70	16°944	5°185	51237	9	21°023	12°601	51311	6	4°916	18°404
50952	5	1°816	21°234					51164	17	17°826	5°492	51238	6	23°613	12°619	51312	7	7°545	18°085
50953	6	3°125	21°245					51165	5	18°619	5°412	51239	16	25°475	12°895	51313	6	7°565	18°232
50954	6	3°405	21°089					51166	13	18°774	5°004	51240	6	2°205	13°907	51314	8	7°844	18°425
50955	7	3°499	21°905					51167	5	19°040	5°283	51241*	12	2°929	13°825	51315*	36	8°003	18°349
50956*	18	3°625	21°097					51168	10	19°739	5°325	51242	10	6°357	13°136	51316	7	8°267	18°573
50957	8	4°537	21°263					51169	20	21°660	5°936	51243*	30	6°515	13°546	51317	8	8°877	18°949
50958	5	6°952	21°238					51170	6	22°795	5°173	51244	6	9°536	13°163	51318	22	11°364	18°875
50959	26	7°610	21°406					51171	12	24°722	5°600	51245	7	9°805	13°451	51319	11	15°528	18°183
50960	6	7°895	21°255					51172	26	1°336	6°589	51246*	30	22°814	13°255	51320	16	16°005	18°433
50961	17	9°783	21°954					51173	11	1°915	6°576	51247	9	23°715	13°643	51321	12	17°548	18°794
50962	7	11°075	21°595					51174	13	4°068	6°727	51248	8	3°734	14°064	51322	11	17°925	18°364
50963	16	11°114	21°786					51175	10	8°034	6°785	51249	7	4°185	14°184	51323	6	20°880	18°658
50964	14	14°087	21°355					51176	8	14°919	6°605	51250	7	5°105	14°976	51324	10	21°025	18°955
50965	10	14°845	21°996					51177	13	15°196	6°064	51251	6	9°765	14°552	51325	5	22°442	18°184
50966	20	15°909	21°080					51178	10	17°304	6°650	51252	8	12°744	14°305	51326	17	24°135	18°933
50967	10	18°070	21°205					51179	8	17°976	6°955	51253	16	13°615	14°124	51327	6	25°993	18°093
50968	8	18°250	21°716					51180	10	19°288	6°265	51254	16	13°877	14°256	51328	7	0°299	19°864
50969	9	21°236	21°918					51181	5	22°328	6°768	51255	27	15°413	14°176	51329	18	1°355	19°545
50970	8	22°466	21°056					51182*	47	22°870	6°354	51256	9	15°480	14°303	51330	12	2°486	19°656
50971	7	24°888	21°466					51183	13	22°972	6°305	51257	14	17°34					

51339	7	23°58'	19°86'	51413	7	4°91'	25°866	51542	24	11°375	3°285	51616	26	7°804	8°174	51690	12	25°422	13°250
51340	10	1°107	20°465	51414	6	5°625	25°596	51543	6	14°181	3°473	51617	5	8°050	8°859	51691	7	1°409	14°368
51341	18	1°959	20°709	51415	14	5°768	25°655	51544	15	14°319	3°105	51618*	66	8°324	8°261	51692*	26	2°267	14°594
51342*	27	2°542	20°353	51416*	24	13°365	25°066	51545	10	15°436	3°662	51619	15	10°529	8°278	51693	6	2°289	14°127
51343	7	3°259	20°365	51417	10	14°728	25°712	51546	6	16°755	3°426	51620	6	14°076	8°084	51694	10	5°555	14°016
51344	9	3°625	20°875	51418	10	15°524	25°479	51547	5	18°877	3°294	51621	10	16°397	8°884	51695	7	7°255	14°786
51345*	33	3°783	20°488	51419	6	17°490	25°394	51548	8	22°166	3°875	51622	6	17°042	8°675	51696	10	7°816	14°645
51346	18	6°966	20°734	51420	8	18°091	25°165	51549	10	23°223	3°918	51623	6	18°445	8°894	51697	14	8°945	14°684
51347	16	7°409	20°704	51421	10	22°175	25°505	51550	8	23°456	3°387	51624	10	19°326	8°329	51698	7	11°496	14°132
51348	22	11°560	20°366	51422	8	23°237	25°306	51551	7	24°185	3°572	51625	9	20°375	8°912	51699	12	13°555	14°966
51349	6	13°758	20°401					51552	6	24°710	3°225	51626	5	21°099	8°607	51700	7	13°905	14°437
51350*	43	14°216	20°916					51553	11	24°974	3°236	51627	11	21°177	8°276	51701*	28	16°120	14°898
51351	20	14°297	20°907					51554	8	4°709	4°119	51628	14	23°916	8°294	51702	14	19°384	14°147
51352*	12	14°304	20°025					51555	6	8°197	4°775	51629	12	0°573	9°436	51703	22	19°967	14°206
51353	8	16°064	20°639					51556	14	9°297	4°105	51630	7	1°465	9°345	51704	7	23°592	14°393
51354*	20	17°478	20°192					51557	7	11°045	4°126	51631	6	2°306	9°416	51705	15	1°023	15°528
51355	12	18°111	20°846					51558	18	11°583	4°808	51632	6	3°435	9°126	51706	5	3°115	15°924
51356	12	24°986	20°941					51559	7	13°816	4°235	51633	10	9°074	9°305	51707*	30	5°006	15°289
51357	7	1°274	21°164					51560	6	15°555	4°723	51634*	27	12°177	9°719	51708	19	6°805	15°003
51358	8	3°702	21°529					51561	7	19°467	4°617	51635*	18	12°244	9°610	51709	17	10°853	15°116
51359	6	4°119	21°525					51562*	37	21°744	4°174	51636	10	12°935	9°180	51710	9	17°565	15°578
51360	10	5°107	21°534					51563	6	0°552	5°444	51637	6	15°584	9°837	51711*	21	19°961	15°904
51361	18	6°565	21°961					51564	13	2°485	5°845	51638*	33	16°229	9°926	51712	6	21°480	15°519
51362	8	9°492	21°441					51565	5	5°494	5°434	51639	9	19°522	9°244	51713	9	22°532	15°852
51363*	33	11°085	21°555					51566	7	5°687	5°656	51640	5	20°979	9°845	51714	8	24°056	15°765
51364	6	11°583	21°502					51567*	30	10°005	5°524	51641	6	21°997	9°229	51715	8	1°143	16°764
51365	7	12°144	21°367					51568*	65	10°702	5°316	51642	10	22°159	9°227	51716	10	2°087	16°664
51366	10	16°119	21°657					51569	16	12°946	5°898	51643	5	24°812	9°494	51717	16	3°112	16°233
51367	7	19°397	21°488					51570	20	13°249	5°157	51644	6	3°390	10°913	51718	10	6°535	16°414
51368	13	22°251	21°642					51571	14	13°836	5°846	51645	6	4°688	10°786	51719	15	7°425	16°605
51369*	14	23°821	21°872					51572	7	16°756	5°935	51646	5	5°105	10°904	51720	20	12°671	16°743
51370	9	0°055	22°046					51573	8	16°793	5°656	51647	5	6°504	10°205	51721	6	19°015	16°625
51371	12	2°176	22°218					51574	8	17°566	5°489	51648	14	7°771	10°157	51722	9	20°885	16°727
51372	11	2°498	22°206					51575	11	18°235	5°784	51649	8	10°160	10°134	51723*	13	21°947	16°104
51373	23	3°155	22°144					51576	8	18°885	5°644	51650*	46	10°295	10°858	51724	7	24°852	16°094
51374*	38	3°624	22°483					51577	6	20°317	5°865	51651*	23	16°236	10°969	51725	6	0°376	17°804
51375	10	3°841	22°085					51578*	29	20°385	5°273	51652	6	18°458	10°024	51726*	12	0°652	17°715
51376	16	4°784	22°374					51579	6	21°385	5°513	51653	10	20°164	10°244	51727	6	3°174	17°174
51377	10	5°216	22°837					51580	18	24°925	5°924	51654	10	20°496	10°729	51728*	27	3°558	17°846
51378	14	5°367	22°210					51581*	46	0°645	6°625	51655	9	23°125	10°725	51729	6	3°628	17°892
51379	24	6°562	22°524					51582	12	0°744	6°574	51656	7	0°426	11°905	51730	17	6°057	17°624
51380	6	7°986	22°285					51583	6	3°706	6°371	51657	8	2°913	11°741	51731	7	8°120	17°451
51381	9	9°809	22°307					51584	12	7°369	6°655	51658	8	2°924	11°724	51732	5	8°362	17°405
51382*	12	10°185	22°433					51585*	34	7°927	6°805	51659	5	3°827	11°827	51733	5	16°815	17°685
51383	18	11°087	22°655					51586	14	13°682	6°491	51660	6	3°970	11°705	51734	10	16°986	17°021
51384	14	11°114	22°649					51587	7	14°085	6°902	51661	10	4°356	11°408	51735	9	23°922	17°627
51385	10	13°270	22°005					51588	10	14°384	6°114	51662	9	11°184	11°227	51736*	16	24°946	17°405
51386*	28	13°824	22°107					51589	6	14°675	6°820	51663	8	19°075	11°055	51737	9	25°072	17°359
51387	14	14°715	22°632					51590	16	15°138	6°095	51664	9	19°502	11°252	51738	6	0°375	18°456
51388	12	15°236	22°415					51591	7	16°716	6°035	51665*	30	19°929	11°514	51739	7	3°931	18°318
51389	13	15°790	22°152					51592	10	20°916	6°205	51666*	33	22°765	11°416	51740	12	4°854	18°715
51390*	12	21°437	22°449					51593	24	23°268	6°256	51667	10	22°805	11°633	51741	8	7°428	18°834
51391	8	22°999	22°340					51594	14	24°802	6°089	51668	5	23°293	11°139	51742*	44	7°648	18°575
51392	6	24°740	22°362					51595*	51	4°526	7°686	51669	5	23°668	11°387	51743	6	7°933	18°256
51393	8	0°995	23°829					51596	30	4°534	7°739	51670	10	25°493	11°404	51744*	18	9°330	18°751
51394	7	4°511	23°250					51597*	22	4°695	7°170	51671	6	25°835	11°411	51745	8	10°198	18°483
51395	8	14°665	23°135					51598	7	7°477	7°345	51672	7	16°787	12°725	51746	6	10°687	18°165
51396	10	14°737	23°840					51599	14	10°706	7°975	51673	7	19°187	12°344	51747	6	15°764	18°530
51397	8	15°324	23°067					51600	12	12°354	7°707	51674	11	20°307	12°225	51748	10	16°557	18°493
51398	9	15°918	23°004					51601	14	15°574	7°553	51675	13	20°605	12°055	51749	18	16°655	18°351
51399	8	18°285	23°644					51602	10	16°410	7°646	51676*	30	0°684	13°525	51750	6	17°805	18°573
51400*	14	25°845	23°479					51603	8	16°596	7°974	51677	10	1°590	13°900	51751*	29	19°015	18°730
51401*	16	6°245	24°354					51604	7	17°840	7°285	51678	20	3°338	13°126	51752*	30	23°173	18°355
51402	6	6°439	24°123					51605	8	17°933	7°865	51679	12	6°194	13°704	51753*	26	24°156	18°033
51403*	16	7°575	24°305					51606	10	18°920	7°715	51680	9	14°178	13°615	51754	5	25°039	18°894
51404	5	8°348	24°033					51607	8	21°767	7°106	51681	5	14°484	13°415	51755	5	1°176	19°479
51405	10	10°136	24°457					51608	13	22°571	7°642	51682*	32	14°577	13°398	51756	5	1°448	19°754
51406	16	11°765	24°408					51609	10	23°449	7°775	51683	5	14°618	13°178	51757	16	2°084	19°185
51407	7	13°617	24°218					51610	8	23°755	7°264	51684	12	14°765	13°345	51758	7	9°891	19°737
51408	6	15°675	24°019					51611</											

51764	7	17°143	19°555	51838	19	19°094	24°550	51935	17	17°987	1°634	52009	11	11°078	4°913	52083	9	13°274	6°051
51765	5	17°284	19°029	51839	5	20°284	24°959	51936	13	18°131	1°885	52010	8	11°720	4°123	52084	18	14°853	6°916
51766*	23	21°311	19°386	51840	14	21°374	24°645	51937	11	20°302	1°411	52011	26	11°799	4°727	52085	23	15°489	6°932
51767	9	22°644	19°744	51841	9	0°216	25°782	51938	12	21°018	1°732	52012*	41	12°962	4°767	52086	13	15°725	6°160
51768	5	23°226	19°186	51842	6	1°274	25°575	51939	18	22°885	1°421	52013	14	13°041	4°518	52087	9	17°618	6°734
51769	8	25°622	19°356	51843	22	4°056	25°764	51940	13	23°428	1°497	52014	13	13°863	4°253	52088	8	17°688	6°236
51770	10	0°215	20°137	51844	10	4°670	25°459	51941	14	23°787	1°920	52015	14	14°818	4°732	52089	13	19°425	6°840
51771	5	0°640	20°371	51845	6	4°935	25°296	51942	13	3°967	2°334	52016	11	15°333	4°457	52090	6	19°629	6°294
51772	8	1°550	20°128	51846*	30	8°580	25°257	51943	5	9°150	2°642	52017	8	15°534	4°433	52091	7	21°092	6°464
51773	6	2°538	20°567	51847	12	9°495	25°363	51944	11	9°910	2°349	52018	11	16°219	4°951	52092	10	21°415	6°865
51774	10	4°936	20°417	51848	11	10°735	25°154	51945	13	9°998	2°913	52019	7	16°867	4°630	52093	17	21°719	6°951
51775	14	5°182	20°987	51849	7	13°516	25°129	51946	10	11°460	2°001	52020	5	18°106	4°462	52094	18	22°486	6°499
51776	10	8°112	20°145	51850	10	13°616	25°257	51947	11	12°309	2°497	52021	8	18°670	4°808	52095	11	22°802	6°847
51777	10	8°694	20°115	51851	5	15°314	25°166	51948	10	12°917	2°133	52022*	44	19°879	4°390	52096	14	22°914	6°413
51778	6	8°844	20°303	51852	9	18°125	25°405	51949	9	13°036	2°226	52023	8	19°884	4°437	52097*	43	22°948	6°741
51779	9	9°775	20°846	51853	12	19°964	25°286	51950	14	13°121	2°130	52024	11	20°725	4°461	52098	8	23°440	6°839
51780	10	11°105	20°196	51854	6	20°617	25°260	51951	7	13°234	2°982	52025	32	20°854	4°069	52099	17	24°952	6°355
51781	18	11°428	20°787					51952	20	13°929	2°621	52026	9	21°702	4°117	52100	17	0°320	7°114
51782	8	12°425	20°681					51953	5	15°410	2°454	52027	5	25°264	4°109	52101	22	1°121	7°567
51783	9	13°763	20°342					51954	9	15°542	2°959	52028*	41	25°804	4°595	52102	11	1°336	7°921
51784	7	15°845	20°889					51955	7	16°075	2°074	52029	22	25°842	4°533	52103	17	1°998	7°705
51785	6	20°400	20°183					51956	8	19°826	2°880	52030	11	0°040	5°548	52104	15	2°306	7°194
51786	9	20°789	20°166					51957	12	20°277	2°102	52031	11	2°162	5°897	52105	12	3°080	7°835
51787	10	22°830	20°378					51958	11	20°520	2°760	52032	13	2°963	5°468	52106	8	3°630	7°642
51788	16	22°866	20°383					51959	13	25°348	2°023	52033	24	3°488	5°863	52107	5	5°025	7°096
51789	9	24°294	20°158					51960	9	25°754	2°978	52034	7	4°061	5°966	52108	9	6°267	7°775
51790*	60	25°751	20°658					51961	7	0°736	3°792	52035	9	5°562	5°013	52109	5	7°878	7°406
51791	14	0°236	21°917					51962	6	0°928	3°836	52036	7	8°439	5°904	52110	10	8°470	7°721
51792	6	2°061	21°875					51963	18	1°795	3°847	52037	12	10°374	5°200	52111	10	8°715	7°661
51793	13	2°964	21°180					51964	12	2°033	3°317	52038	20	10°489	5°319	52112	13	9°017	7°278
51794	9	5°475	21°574					51965	16	2°761	3°506	52039	7	11°190	5°663	52113	18	9°732	7°937
51795	6	6°659	21°736					51966	13	3°287	3°163	52040	18	11°284	5°292	52114	9	10°181	7°803
51796	10	7°517	21°475					51967	21	3°550	3°177	52041	14	11°291	5°801	52115	16	10°373	7°574
51797	6	7°845	21°023					51968	10	5°181	3°259	52042	13	11°751	5°763	52116	11	10°651	7°895
51798	9	13°572	21°065					51969	16	5°249	3°183	52043	11	13°737	5°674	52117	9	11°723	7°265
51799	25	16°925	21°716					51970*	48	5°525	3°232	52044	14	14°015	5°054	52118	11	12°567	7°847
51800	6	17°854	21°656					51971	7	6°319	3°528	52045	15	14°475	5°347	52119	17	13°536	7°263
51801	14	18°309	21°218					51972	14	7°244	3°896	52046	14	15°181	5°933	52120	7	13°910	7°942
51802	8	18°316	21°023					51973	21	8°188	3°454	52047	13	15°221	5°986	52121	8	14°414	7°956
51803	9	20°944	21°429					51974	9	8°206	3°580	52048	11	15°506	5°137	52122	16	16°465	7°341
51804	10	21°925	21°542					51975	13	8°265	3°119	52049	10	15°693	5°356	52123	14	16°751	7°334
51805	9	21°966	21°359					51976	19	8°473	3°273	52050	14	15°944	5°096	52124	11	17°170	7°835
51806	8	0°996	22°612					51977	8	9°414	3°834	52051	6	17°672	5°539	52125	17	18°067	7°475
51807*	18	1°809	22°126					51978	25	10°693	3°014	52052	18	18°655	5°653	52126	9	18°304	7°149
51808	7	2°736	22°605					51979	18	12°131	3°115	52053	8	18°886	5°651	52127	5	18°799	7°773
51809	7	6°775	22°289					51980	20	12°374	3°800	52054	7	19°939	5°032	52128	6	22°907	7°660
51810	9	8°756	22°049					51981	14	12°500	3°972	52055	17	21°604	5°286	52129	7	23°023	7°076
51811	8	9°796	22°343					51982	13	12°750	3°621	52056	13	21°893	5°622	52130	12	23°560	7°194
51812	9	10°331	22°122					51983	15	13°222	3°434	52057	11	22°035	5°678	52131	22	23°612	7°653
51813	7	11°746	22°973					51984	6	13°869	3°166	52058	6	23°047	5°203	52132	6	25°366	7°909
51814	8	14°455	22°575					51985	16	14°056	3°340	52059	19	25°140	5°739	52133	14	25°951	7°350
51815	7	15°610	22°711					51986	13	14°290	3°814	52060	24	25°179	5°024	52134	22	2°462	8°230
51816	5	15°625	22°669					51987	8	14°965	3°747	52061	17	25°366	5°549	52135	9	4°604	8°592
51817	14	17°845	22°144					51988	7	18°132	3°831	52062	15	25°647	5°170	52136	15	5°661	8°715
51818*	50	19°987	22°248					51989	9	18°720	3°370	52063	7	25°885	5°901	52137	6	6°123	8°913
51819	9	23°900	22°825					51990	13	18°764	3°675	52064	29	1°830	6°187	52138	7	6°441	8°356
51820*	18	3°856	23°706					51991	18	18°857	3°069	52065	24	3°364	6°030	52139	12	8°131	8°362
51821*	41	8°665	23°055					51992	7	18°961	3°841	52066	11	4°081	6°257	52140	13	8°250	8°446
51822	18	9°353	23°479					51993	9	19°192	3°468	52067	14	4°454	6°355	52141	8	9°372	8°399
51823	6	11°324	23°988					51994	11	20°262	3°596	52068	6	5°316	6°857	52142	7	9°850	8°285
51824	12	12°845	23°792					51995*	46	21°432	3°932	52069	12	5°910	6°953	52143	8	10°052	8°674
51825	6	22°494	23°015					51996	21	23°107	3°753	52070	18	6°109	6°111	52144	5	10°421	8°353
51826	12	22°786	23°398					51997	15	23°798	3°429	52071	20	6°198	6°801	52145	12	10°533	8°687
51827	14	23°229	23°255					51998	12	24°199	3°662	52072	10	6°949	6°309	52146	19	10°586	8°610
51828	7	24°835	23°883					51999	14	24°260	3°356	52073*	57	7°438	6°728	52147	5	10°624	8°538
51829*	27	4°799	24°865					52000*	50	0°318	4°099	52074	9	9°524	6°047	52148	22	11°478	8°729
51830	10	5°408	24°455					52001	22	6°028	4°241	52075	18	9°651	6°520	52149	9	12°006	8°786
51831	8	7°159	24°354					52002	17	6°029	4°398	52076	21	10°120	6°065	52150	11	12°123	8°359
51832	6	11°485	24°966					52003	13	6°080	4°368	52077	7	11°037	6°328	52151	19	12°605	8°892
51833	16	12°494	24°265				</												

52157	9	18°401	8°607	52231	7	14°421	10°415	52305	15	13°201	12°312	52379	21	12°201	14°373	52453	10	5°259	16°924
52158	14	18°835	8°250	52232	15	15°063	10°160	52306	8	13°275	12°015	52380	7	13°172	14°389	52454	17	6°262	16°537
52159	9	18°841	8°607	52233	7	15°395	10°182	52307	20	13°964	12°584	52381	14	13°206	14°497	52455	20	6°361	16°727
52160	8	19°480	8°918	52234	19	15°417	10°194	52308	19	14°194	12°756	52382	14	13°842	14°284	52456	60	8°080	16°591
52161	16	19°885	8°982	52235	16	16°418	10°673	52309	21	14°620	12°182	52383	16	13°935	14°196	52457	7	8°454	16°743
52162	8	20°619	8°490	52236	14	16°584	10°820	52310	12	15°428	12°481	52384	7	14°136	14°024	52458	16	8°543	16°256
52163	9	21°556	8°909	52237*	43	17°193	10°442	52311	14	17°415	12°125	52385	22	15°099	14°632	52459	11	9°283	16°318
52164	12	22°116	8°698	52238	9	18°021	10°022	52312	6	19°451	12°124	52386	8	15°450	14°261	52460	7	9°311	16°110
52165	7	22°241	8°553	52239	21	18°949	10°344	52313	13	21°483	12°019	52387	13	16°421	14°276	52461	17	9°709	16°487
52166	18	23°010	8°111	52240	11	19°434	10°873	52314	12	21°715	12°763	52388	18	17°745	14°921	52462	11	10°172	16°111
52167	15	23°434	8°166	52241	16	19°572	10°407	52315	11	21°911	12°462	52389	15	17°980	14°520	52463	14	10°291	16°791
52168	6	23°557	8°782	52242	7	20°264	10°211	52316	13	23°273	12°090	52390	19	18°580	14°911	52464	8	10°390	16°954
52169	11	24°738	8°012	52243	12	20°883	10°388	52317	14	23°566	12°283	52391	17	19°216	14°470	52465	18	10°556	16°898
52170	13	0°539	9°151	52244	8	22°411	10°380	52318	11	1°217	13°836	52392	11	19°369	14°274	52466	10	11°615	16°830
52171	19	0°702	9°149	52245	11	22°438	10°852	52319	15	2°021	13°552	52393	6	20°577	14°611	52467	22	11°687	16°872
52172	9	2°471	9°564	52246	8	22°578	10°981	52320	11	2°787	13°374	52394	8	20°786	14°220	52468	11	12°366	16°982
52173	13	3°350	9°433	52247	10	23°039	10°780	52321*	30	3°569	13°558	52395	15	21°492	14°515	52469	17	12°621	16°321
52174	18	4°636	9°057	52248	22	23°556	10°899	52322	21	3°936	13°194	52396	13	21°969	14°724	52470	13	14°042	16°913
52175	11	5°454	9°542	52249	15	23°919	10°651	52323	6	5°606	13°753	52397	12	22°388	14°431	52471	10	14°989	16°135
52176	11	6°865	9°799	52250	5	25°137	10°490	52324	8	5°876	13°915	52398*	45	22°611	14°735	52472	15	15°041	16°457
52177	9	7°240	9°251	52251*	37	1°293	11°343	52325	20	6°191	13°960	52399	21	23°448	14°100	52473	17	15°047	16°696
52178	6	7°267	9°887	52252	19	1°334	11°558	52326	9	7°562	13°274	52400	10	23°450	14°827	52474	9	15°169	16°937
52179	10	7°796	9°708	52253	14	1°821	11°069	52327	13	9°689	13°034	52401*	29	23°903	14°624	52475	15	16°488	16°425
52180	8	9°971	9°965	52254	6	1°910	11°926	52328	9	9°874	13°879	52402	10	25°380	14°731	52476	13	16°885	16°201
52181	13	10°076	9°719	52255	14	2°194	11°320	52329	19	10°350	13°640	52403	15	0°711	15°160	52477	9	17°250	16°624
52182	7	10°134	9°133	52256	18	4°020	11°347	52330	14	10°993	13°819	52404	19	1°031	15°774	52478	19	17°810	16°061
52183	9	11°539	9°989	52257	16	4°360	11°355	52331	5	11°086	13°174	52405	17	2°557	15°698	52479	14	18°344	16°396
52184*	34	11°595	9°226	52258	13	4°585	11°257	52332	13	11°793	13°539	52406	6	2°811	15°582	52480	13	18°468	16°859
52185	13	13°447	9°857	52259*	32	4°702	11°188	52333	19	12°124	13°515	52407	11	3°510	15°187	52481	25	18°988	16°238
52186	6	13°450	9°938	52260*	27	5°304	11°576	52334	13	13°386	13°787	52408	16	4°560	15°097	52482	9	19°011	16°347
52187	19	13°757	9°078	52261	15	8°835	11°771	52335	21	13°703	13°560	52409	33	4°571	15°317	52483	10	20°020	16°233
52188	18	14°224	9°471	52262	9	9°170	11°268	52336	16	13°704	13°902	52410	13	5°438	15°796	52484	7	20°503	16°800
52189	9	14°430	9°550	52263	6	9°523	11°153	52337*	42	13°918	13°021	52411	9	5°831	15°393	52485	16	20°704	16°467
52190	10	14°845	9°506	52264	16	10°671	11°673	52338	9	14°135	13°087	52412	9	6°060	15°851	52486	11	21°301	16°701
52191	5	15°117	9°690	52265	14	11°407	11°487	52339	19	15°260	13°632	52413	13	7°644	15°984	52487	12	21°969	16°370
52192	5	15°683	9°939	52266	13	12°079	11°874	52340	14	15°957	13°468	52414	14	7°734	15°280	52488*	33	22°125	16°090
52193	14	16°356	9°501	52267	5	12°778	11°060	52341*	40	16°413	13°026	52415	7	8°492	15°070	52489*	22	22°531	16°388
52194	13	18°356	9°827	52268	15	13°340	11°251	52342	16	16°601	13°934	52416	18	8°911	15°343	52490	7	22°867	16°381
52195	8	19°291	9°362	52269	18	14°556	11°519	52343	7	17°689	13°823	52417	5	8°949	15°581	52491*	26	23°003	16°189
52196	9	19°398	9°179	52270	9	14°685	11°730	52344	13	18°391	13°298	52418	13	9°351	15°211	52492	9	23°452	16°899
52197	18	22°887	9°188	52271	6	15°306	11°074	52345	6	19°620	13°210	52419	18	10°244	15°065	52493	20	25°278	16°914
52198	16	23°600	9°702	52272	16	16°134	11°435	52346	12	19°976	13°697	52420	17	10°269	15°788	52494	23	25°629	16°330
52199	17	23°703	9°562	52273	13	17°411	11°573	52347	23	20°045	13°940	52421	7	10°403	15°952	52495	14	0°870	17°943
52200	21	24°140	9°782	52274	18	17°527	11°217	52348*	34	20°388	13°735	52422	6	12°264	15°750	52496	14	1°900	17°343
52201	5	24°333	9°776	52275	11	17°612	11°274	52349	14	21°606	13°967	52423	14	13°686	15°109	52497	19	2°413	17°561
52202	11	24°644	9°007	52276	14	18°341	11°646	52350	9	21°747	13°065	52424	7	14°172	15°399	52498*	33	2°642	17°970
52203	14	24°840	9°541	52277	14	20°078	11°495	52351	15	22°315	13°196	52425	15	14°234	15°270	52499*	23	3°437	17°342
52204	16	1°656	10°655	52278	18	20°670	11°876	52352	16	22°480	13°950	52426	10	14°711	15°354	52500	8	3°562	17°299
52205	11	3°691	10°802	52279	17	21°378	11°960	52353	17	23°289	13°889	52427	14	14°724	15°261	52501	8	4°193	17°779
52206	5	4°259	10°168	52280	8	21°629	11°271	52354	9	23°323	13°185	52428	7	15°399	15°987	52502	8	4°517	17°646
52207	13	4°899	10°178	52281	11	21°824	11°325	52355	13	23°404	13°660	52429	19	16°567	15°760	52503	12	5°574	17°832
52208	9	5°200	10°365	52282	16	22°775	11°938	52356	15	23°877	13°237	52430	10	16°620	15°896	52504	14	5°602	17°910
52209*	21	5°332	10°640	52283	9	23°201	11°307	52357*	34	23°974	13°058	52431	9	17°201	15°972	52505	20	6°531	17°472
52210	13	5°342	10°786	52284	24	23°347	11°202	52358	12	25°079	13°487	52432	12	17°820	15°310	52506	8	7°282	17°187
52211	7	6°949	10°267	52285	15	2°590	12°641	52359	12	25°103	13°757	52433	17	17°937	15°396	52507	11	9°557	17°981
52212	16	6°974	10°194	52286	9	4°129	12°663	52360	15	25°665	13°411	52434	9	18°276	15°426	52508	9	10°692	17°296
52213	15	7°001	10°920	52287	8	5°478	12°942	52361	17	2°100	14°323	52435	13	18°445	15°157	52509	12	11°914	17°491
52214	17	7°091	10°413	52288	12	5°753	12°784	52362	14	4°539	14°320	52436	11	18°523	15°556	52510	11	12°061	17°085
52215	5	9°120	10°750	52289	13	5°786	12°901	52363	20	5°448	14°542	52437	8	19°220	15°838	52511	9	12°585	17°094
52216	5	9°351	10°932	52290	7	8°568	12°540	52364	10	5°539	14°481	52438	24	21°006	15°019	52512	7	12°602	17°367
52217	8	9°427	10°933	52291	17	8°847	12°551	52365	18	5°781	14°422	52439	20	21°787	15°262	52513	16	13°242	17°204
52218	18	9°900	10°454	52292	8	8°956	12°346	52366	6	5°826	14°216	52440	11	22°843	15°903	52514	19	14°811	17°745
52219	9	10°076	10°102	52293	7	9°300	12°79												

52527	16	24°53'1	17°68'0	52601	11	21°95'8	19°02'7	52675	13	7°6'70	22°84'0	52749	14	17°77'4	24°86'0	52805	5	11°15'8	0°9'16
52528	9	1°25'0	18°00'4	52602	6	23°07'6	19°05'9	52676	24	7°8'01	22°01'8	52750	8	18°45'1	24°13'9	52806	10	15°44'0	0°02'5
52529*	35	1°65'7	18°28'1	52603	16	24°40'7	19°38'0	52677	6	8°23'3	22°57'9	52751	17	18°61'8	24°77'7	52807*	26	16°88'2	0°02'9
52530	16	3°51'9	18°83'0	52604	6	24°81'1	19°58'1	52678	13	9°18'6	22°26'0	52752	18	18°84'5	24°35'0	52808	9	18°81'5	0°09'5
52531	10	5°17'1	18°93'4	52605	20	25°36'5	19°93'5	52679	14	9°54'9	22°57'4	52753	17	19°49'6	24°87'5	52809*	56	25°16'3	0°09'8
52532	14	5°55'4	18°62'1	52606*	34	25°96'2	19°88'0	52680	9	11°07'5	22°79'3	52754	22	19°79'5	24°63'8	52810	12	5°98'5	1°31'5
52533	14	7°31'3	18°55'2	52607	17	1°30'1	20°30'3	52681	10	12°49'8	22°20'7	52755	10	20°05'2	24°06'6	52811	6	9°13'1	1°83'4
52534	17	7°54'9	18°85'0	52608	24	1°33'8	20°30'7	52682	8	12°92'1	22°43'0	52756	16	20°62'6	24°41'1	52812	6	11°90'3	1°80'9
52535	13	7°86'7	18°01'4	52609	18	2°76'8	20°09'5	52683	6	13°43'0	22°69'7	52757	9	21°10'5	24°02'7	52813	8	16°51'9	1°33'3
52536	14	8°28'9	18°09'0	52610*	68	4°22'0	20°60'3	52684	17	13°99'5	22°37'0	52758	6	21°14'2	24°35'2	52814	6	17°05'5	1°61'9
52537	19	9°53'2	18°08'9	52611	15	4°82'4	20°21'6	52685	14	14°42'0	22°94'8	52759	17	21°54'1	24°46'6	52815	5	21°13'2	1°45'2
52538	5	9°74'1	18°15'0	52612	15	5°90'6	20°40'9	52686	13	15°21'2	22°28'0	52760	12	22°30'2	24°64'9	52816	5	21°37'4	1°49'9
52539	9	13°13'9	18°09'6	52613	14	7°24'5	20°84'0	52687	13	16°62'7	22°13'4	52761	9	23°29'8	24°18'0	52817*	18	5°27'5	2°41'5
52540	8	14°18'3	18°00'5	52614	6	11°21'3	20°95'6	52688	7	16°90'7	22°08'2	52762	17	24°49'6	24°55'5	52818	5	7°12'8	2°50'5
52541	18	14°45'6	18°46'0	52615	7	11°53'7	20°06'3	52689	5	17°02'4	22°57'2	52763	21	24°87'0	24°80'8	52819	5	7°47'6	2°85'9
52542	21	14°60'2	18°77'0	52616	12	11°54'7	20°93'7	52690	14	17°24'6	22°56'5	52764	14	3°31'1	25°28'1	52820	17	8°60'0	2°96'3
52543	8	17°22'0	18°49'5	52617	11	13°26'0	20°92'2	52691	12	17°30'4	22°46'1	52765	15	5°75'6	25°88'0	52821	21	12°71'4	2°28'2
52544	17	17°41'0	18°35'3	52618	7	13°56'1	20°53'7	52692	11	17°36'4	22°08'0	52766	15	5°95'8	25°74'0	52822*	32	15°00'2	2°56'6
52545	24	17°42'7	18°24'9	52619	22	14°25'0	20°35'2	52693	10	17°54'0	22°74'9	52767	18	6°41'5	25°66'2	52823	6	15°36'3	2°65'5
52546	28	18°98'5	18°86'9	52620*	32	14°36'4	20°38'6	52694	8	19°28'6	22°95'5	52768	10	6°56'3	25°61'4	52824	5	16°64'8	2°58'1
52547	10	19°50'6	18°39'8	52621	13	14°86'6	20°34'7	52695	11	20°64'2	22°03'9	52769	20	7°33'1	25°34'3	52825	16	19°45'5	2°43'3
52548	22	19°60'2	18°07'4	52622	11	14°91'5	20°44'3	52696*	33	21°32'4	22°27'3	52770	7	7°65'4	25°56'9	52826	26	21°04'4	2°63'4
52549*	32	19°71'0	18°35'3	52623	16	16°09'3	20°36'1	52697	13	21°68'9	22°77'6	52771	33	8°35'5	25°88'0	52827	5	23°48'6	2°25'0
52550	11	20°23'2	18°22'1	52624	22	16°11'9	20°59'3	52698	8	21°97'5	22°90'9	52772	12	8°48'8	25°79'6	52828	9	0°80'3	3°75'4
52551	13	20°90'5	18°49'0	52625	16	16°81'0	20°17'5	52699	7	22°11'9	22°12'8	52773	16	8°68'4	25°71'7	52829	5	1°48'1	3°40'4
52552	12	21°64'2	18°80'8	52626	15	17°61'7	20°04'6	52700	12	23°35'8	22°16'3	52774	8	9°91'9	25°48'8	52830	8	9°93'6	3°67'3
52553	13	22°25'3	18°04'7	52627	8	19°81'0	20°33'3	52701	10	23°46'6	22°99'4	52775	20	10°15'0	25°19'4	52831	9	10°55'5	3°06'1
52554	9	23°26'9	18°79'3	52628*	39	20°59'7	20°87'3	52702	23	1°24'0	23°32'2	52776	16	10°17'9	25°89'4	52832	6	12°47'7	3°72'7
52555	6	23°69'9	18°06'7	52629	12	20°79'0	20°11'1	52703	21	1°68'4	23°18'2	52777	15	10°23'6	25°17'0	52833	5	15°25'5	3°03'3
52556	18	23°86'6	18°78'5	52630	7	21°04'9	20°07'6	52704	17	3°28'7	23°81'7	52778	6	10°62'9	25°21'2	52834*	42	16°49'7	3°86'5
52557	29	24°75'4	18°10'0	52631	8	21°08'8	20°15'0	52705	21	4°60'2	23°36'6	52779	9	11°04'7	25°28'2	52835	5	16°67'4	3°28'6
52558	19	25°03'9	18°37'9	52632*	26	22°15'6	20°34'7	52706	7	6°13'5	23°14'1	52780	19	11°75'2	25°01'9	52836	14	19°05'4	3°82'6
52559	9	25°07'1	18°22'6	52633	8	22°30'9	20°00'4	52707	17	6°57'7	23°83'9	52781	8	12°64'7	25°35'0	52837	15	20°08'6	3°14'4
52560	13	25°41'1	18°09'3	52634	6	23°37'7	20°63'7	52708	9	7°21'2	23°01'3	52782	9	13°71'4	25°57'9	52838*	32	20°91'5	3°85'4
52561*	32	25°57'3	18°85'2	52635	5	23°61'2	20°37'0	52709	8	8°72'1	23°46'1	52783	32	13°83'3	25°92'8	52839	10	2°91'4	4°95'6
52562	10	0°37'2	19°05'5	52636	18	24°57'5	20°45'1	52710	14	9°54'0	23°54'4	52784*	31	17°02'2	25°83'5	52840*	26	3°52'4	4°50'7
52563	18	1°11'9	19°66'6	52637	17	0°38'9	21°46'1	52711	17	9°72'2	23°90'4	52785	7	17°38'7	25°25'6	52841	9	3°55'9	4°44'5
52564	12	1°70'7	19°11'4	52638	9	0°40'7	21°99'8	52712	11	9°99'8	23°66'5	52786	18	17°56'1	25°06'6	52842	10	5°51'5	4°62'9
52565	10	1°92'8	19°67'1	52639	18	0°43'2	21°27'8	52713	15	11°01'2	23°53'0	52787	11	18°74'8	25°88'2	52843	5	6°72'9	4°03'6
52566	13	3°97'3	19°02'2	52640	9	1°12'2	21°54'3	52714	5	11°26'9	23°67'4	52788	17	19°35'9	25°32'0	52844	5	7°96'7	4°43'5
52567	18	4°09'7	19°29'8	52641	13	3°37'6	21°22'5	52715	11	12°71'3	23°35'0	52789	18	19°53'2	25°98'9	52845	7	8°60'6	4°38'6
52568	20	4°93'4	19°24'4	52642	11	4°02'0	21°68'9	52716	7	12°89'4	23°45'3	52790	7	19°74'8	25°79'9	52846*	34	11°50'5	4°01'5
52569	6	6°01'3	19°03'9	52643	7	4°68'9	21°36'0	52717	9	14°84'0	23°35'9	52791	11	20°04'3	25°52'7	52847	17	13°69'0	4°25'1
52570	13	6°32'7	19°76'7	52644*	34	6°03'7	21°94'0	52718	10	15°20'6	23°68'1	52792	17	20°13'9	25°88'6	52848	7	15°38'6	4°82'7
52571	19	6°47'0	19°52'6	52645	7	6°61'8	21°61'1	52719	13	15°66'3	23°75'9	52793*	80	22°02'7	25°74'6	52849	10	18°83'1	4°51'5
52572	13	7°72'7	19°29'3	52646	22	7°08'5	21°08'0	52720	11	17°04'4	23°76'7	52794	39	23°14'3	25°87'7	52850	8	20°12'5	4°37'6
52573	17	8°28'6	19°72'8	52647	16	10°32'5	21°98'1	52721	10	17°37'6	23°59'2	52795	12	24°28'8	25°68'6	52851	5	22°34'6	4°63'0
52574	15	8°69'6	19°50'0	52648	8	10°94'1	21°12'2	52722	7	17°95'3	23°07'6					52852	5	2°89'6	5°66'9
52575	10	8°76'2	19°08'4	52649	10	11°68'7	21°31'7	52723	18	18°46'6	23°28'1					52853	5	3°11'4	5°47'5
52576	23	9°33'0	19°64'5	52650	14	12°13'6	21°34'8	52724	18	19°14'4	23°73'5					52854	6	4°05'5	5°61'4
52577	16	9°59'7	19°32'7	52651	7	13°75'3	21°94'9	52725	11	19°40'9	23°01'0					52855	7	13°82'0	5°73'2
52578	6	9°65'1	19°67'0	52652	20	14°05'0	21°08'8	52726	6	19°72'3	23°27'8					52856	18	17°36'5	5°11'8
52579	10	11°05'2	19°23'8	52653	16	14°17'0	21°69'5	52727	5	20°62'9	23°74'5					52857	6	18°51'1	5°13'5
52580	13	11°09'8	19°34'4	52654	9	15°99'4	21°22'0	52728	5	21°07'0	23°67'8					52858	6	21°61'0	5°04'4
52581	24	11°61'6	19°86'4	52655	18	16°08'7	21°57'4	52729	19	21°18'8	23°49'5					52859	9	23°25'0	5°22'6
52582	7	11°83'0	19°08'1	52656	21	17°18'1	21°82'0	52730	9	21°25'5	23°07'7					52860*	36	0°73'6	6°74'3
52583	26	12°05'9	19°45'2	52657	11	17°40'0	21°25'9	52731	20	21°58'9	23°16'7					52861	6	2°73'5	6°29'5
52584	29	12°45'6	19°09'5	52658	17	17°68'7	21°46'1	52732	8	21°60'9	23°18'9					52862	9	7°72'7	6°30'6
52585	6	12°56'7	19°98'0	52659	8	19°05'2	21°30'0	52733	6	21°79'3	23°98'8					52863	6	8°28'7	6°08'9
52586	11	13°00'3	19°83'9	52660	7	19°38'0	21°62'1	52734	18	21°85'2	23°60'9					52864	6	11°64'0	6°69'7
52587	8	13°72'6	19°68'8	52661	6	19°86'2	21°46'0	52735	19	21°91'9	23°36'6					52865	10	11°70'5	6°94'5
52588	13	15°65'3	19°																

52879	5	21°986	7°201	52953	10	18°062	13°966	53027	9	12°475	19°847	53157	7	16°966	1°768
52880	8	23°902	7°800	52954	5	18°903	13°221	53028	8	12°496	19°882	53158	7	18°418	1°935
52881	6	0°845	8°108	52955	6	23°185	13°610	53029	6	13°715	19°153	53159	8	19°935	1°756
52882	7	5°815	8°975	52956*	39	0°663	14°745	53030*	16	0°388	20°370	53160	6	21°307	1°305
52883	8	6°644	8°190	52957	8	1°477	14°084	53031	6	2°814	20°395	53161	10	21°592	1°028
52884	7	6°970	8°996	52958*	23	1°946	14°592	53032	8	4°591	20°024	53162	8	21°854	1°377
52885	8	10°925	8°639	52959	20	2°197	14°994	53033	10	9°785	20°925	53163	7	22°594	1°166
52886	22	12°061	8°605	52960	5	4°923	14°074	53034	8	13°607	20°005	53164	8	22°822	1°874
52887	10	13°105	8°045	52961	5	6°285	14°905	53035	6	15°085	20°854	53165	7	23°054	1°436
52888	8	17°128	8°577	52962	11	6°898	14°974	53036	10	15°728	20°114	53166	11	23°278	1°150
52889	9	18°299	8°106	52963	6	8°286	14°795	53037	11	16°532	20°631	53167	10	23°447	1°074
52890	10	18°594	8°775	52964	10	15°934	14°715	53038	8	18°040	20°647	53168	11	25°084	1°803
52891	12	18°624	8°974	52965	11	17°079	14°436	53039*	25	18°926	20°538	53169	11	25°445	1°704
52892	10	19°084	8°614	52966*	17	24°054	14°393	53040	15	22°922	20°635	53170	8	25°523	1°614
52893	12	19°566	8°554	52967	6	1°246	15°401	53041	10	25°270	20°464	53171	15	1°694	2°107
52894	9	23°277	8°275	52968*	37	4°234	15°615	53042	6	4°936	21°265	53172	15	3°252	2°616
52895	5	24°605	8°585	52969*	29	5°385	15°442	53043	8	5°866	21°663	53173	14	3°685	2°383
52896	16	24°766	8°247	52970	6	6°579	15°442	53044	7	6°064	21°094	53174	11	3°848	2°232
52897	5	0°756	9°189	52971	5	7°903	15°114	53045	6	7°795	21°745	53175	16	4°242	2°904
52898	6	1°585	9°539	52972	10	11°004	15°585	53046	7	10°184	21°135	53176	13	4°876	2°014
52899	10	2°029	9°745	52973	6	16°475	15°521	53047	7	10°322	21°776	53177	11	6°723	2°724
52900	16	4°565	9°305	52974*	16	21°097	15°146	53048	10	12°817	21°479	53178	17	7°446	2°091
52901	8	16°327	9°109	52975	6	21°935	15°732	53049	5	14°136	21°277	53179	8	7°617	2°993
52902	8	17°626	9°883	52976	12	22°231	15°085	53050	7	19°636	21°262	53180	10	8°261	2°584
52903	6	18°129	9°375	52977	6	23°600	15°876	53051	6	22°036	21°411	53181	8	9°576	2°283
52904	6	19°528	9°633	52978	5	24°412	15°922	53052	8	22°349	21°055	53182	20	10°773	2°857
52905	11	20°454	9°744	52979	7	24°739	15°493	53053	7	22°984	21°927	53183	11	10°918	2°496
52906	14	22°188	9°880	52980	7	25°389	15°195	53054	5	7°451	22°516	53184	14	11°889	2°121
52907	11	1°484	10°879	52981*	30	0°218	16°114	53055	19	8°975	22°644	53185	15	12°091	2°543
52908	8	5°499	10°372	52982*	12	0°635	16°400	53056	10	12°699	22°995	53186	7	12°684	2°576
52909	6	5°760	10°215	52983*	20	1°100	16°183	53057	9	13°475	22°079	53187	9	12°860	2°417
52910	5	6°234	10°795	52984	9	3°397	16°836	53058	8	13°566	22°934	53188	6	12°866	2°636
52911	10	7°364	10°426	52985	11	3°728	16°245	53059	6	14°926	22°250	53189	12	12°920	2°757
52912	14	9°215	10°213	52986	8	5°864	16°172	53060*	18	18°096	22°999	53190	8	12°954	2°867
52913	5	9°454	10°564	52987	8	10°494	16°383	53061*	22	18°960	22°312	53191	6	13°249	2°224
52914*	27	12°505	10°652	52988	12	11°154	16°305	53062	5	21°326	22°088	53192*	23	13°435	2°563
52915	9	14°366	10°359	52989	13	17°255	16°532	53063	6	23°008	22°604	53193	9	14°818	2°776
52916	5	21°494	10°263	52990	6	22°647	16°062	53064	6	25°276	22°035	53194*	37	15°163	2°260
52917	7	21°964	10°626	52991*	17	23°291	16°846	53065*	9	3°536	23°780	53195	6	15°309	2°172
52918*	15	25°417	10°541	52992	6	23°479	16°072	53066*	30	4°235	23°498	53196*	24	15°980	2°392
52919	16	1°284	11°190	52993*	18	23°923	16°925	53067	6	6°276	23°612	53197	7	16°722	2°463
52920	6	5°198	11°386	52994	6	24°704	16°614	53068	10	8°934	23°043	53198	12	17°482	2°996
52921	5	5°629	11°675	52995*	14	25°189	16°896	53069	10	9°433	23°765	53199	19	17°704	2°046
52922	6	5°914	11°578	52996	5	2°680	17°627	53070	9	9°513	23°287	53200*	25	17°778	2°375
52923	6	6°089	11°783	52997	11	4°233	17°007	53071	7	11°844	23°885	53201	12	18°142	2°227
52924	5	7°545	11°456	52998	6	5°004	17°016	53072	6	12°145	23°302	53202	8	18°587	2°464
52925	6	11°802	11°033	52999	5	6°266	17°174	53073	14	12°998	23°834	53203	7	19°407	2°786
52926*	7	14°417	11°806	53000	6	9°624	17°765	53074*	26	14°440	23°785	53204	13	19°589	2°153
52927	6	15°140	11°993	53001	9	9°865	17°086	53075	7	14°595	23°430	53205	11	19°763	2°067
52928*	14	15°696	11°634	53002	5	13°085	17°539	53076	8	17°408	23°395	53206	15	20°797	2°426
52929	5	22°362	11°334	53003	5	15°305	17°526	53077	6	19°824	23°504	53207	14	21°760	2°331
52930*	25	22°845	11°698	53004	6	19°256	17°119	53078	12	19°964	23°716	53208	8	22°160	2°785
52931	10	25°095	11°965	53005	15	21°293	17°117	53079	7	3°249	24°744	53209	16	22°406	2°407
52932	6	8°798	12°804	53006*	36	21°326	17°175	53080	7	9°436	24°182	53210	13	22°505	2°223
52933	6	10°037	12°800	53007	22	2°914	18°035	53081	20	16°054	24°506	53211	12	22°752	2°121
52934*	14	10°725	12°148	53008	6	3°208	18°307	53082	5	19°716	24°742	53212	10	25°074	2°534
52935	6	11°035	12°845	53009*	20	3°756	18°765	53083	9	19°850	24°261	53213	11	4°283	3°785
52936	7	11°756	12°105	53010*	26	6°288	18°245	53084	10	20°516	24°796	53214	5	6°321	3°259
52937*	24	12°251	12°861	53011	13	10°046	18°032	53085	21	22°659	24°783	53215	13	6°388	3°294
52938	5	13°877	12°766	53012	6	11°249	18°124	53086	15	23°267	24°549	53216	7	6°927	3°367
52939*	31	16°852	12°451	53013	8	11°375	18°945	53087*	75	0°434	25°765	53217	20	7°052	3°596
52940*	23	18°163	12°989	53014	9	14°964	18°773	53088	19	1°555	25°865	53218	7	7°086	3°194
52941*	32	19°328	12°753	53015	11	16°154	18°277	53089*	20	6°757	25°212	53219	18	7°683	3°762
52942	13	19°422	12°865	53016	6	16°703	18°076	53090	6	8°768	25°496	53220	19	7°807	3°296
52943	6	19°667	12°744	53017*	52	16°915	18°727	53091	12	10°495	25°434	53221	7	9°615	3°498
52944	5	21°437	12°229	53018	12	17°174	18°825	53092	8	14°256	25°254	53222	13	9°734	3°537
52945	12	23°037	12°909	53019	5	18°056	18°683	53093*	18	15°216	25°486	53223	14	12°644	3°926
52946	7	24°518	12°774	53020	5	25°738	18°386	53094*	32	21°384	25°423	53224	17	13°037	3°478
52947	6	1°312	13°879	53021	8	3°585	19°855	53095*	14	22°864	25°486	53225	7	14°019	3°852
52948*	26	1°967	13°024	53022*	26	4°175	19°778					53226	13	14°496	3°992
52949*	32	8°925	13°108	53023	5	5°752	19°933					53227	6	14°757	3°600
52950*	10	11°793	13°026	53024	6	9°686	19°826					53228	14	16°159	3°591
52951	5	16°410	13°895	53025	11	12°113	19°336					53229	10	16°219	3°509
52952	12	17°157	13°754	53026	8	12°114	19°357					53230	18	16°354	3°344

R. A. 18^h 4^m

Plate 1198; 1898 Aug. 11.

Provisional Constants.

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-00030 +00526 -1575D E F
-00542 -00035 -3289

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No.	d	x	y
53101	7	1°463	0°955
53102	19	3°936	0°061
53103	12	4°379	0°776
53104	17	5°073	0°736
53105	14	5°644	0°088
53106	6	6°574	0°232
53107	12	7°295	0°668
53108*	40	7°386	0°535
53109	7	8°252	0°9

53231	15	16°581	3°055	53305	11	15°312	5°857	53379	13	9°705	7°256	53453	13	19°339	9°181	53527	17	8°143	12°928
53232	12	17°266	3°877	53306	14	15°792	5°248	53380	18	10°492	7°966	53454	7	21°504	9°735	53528	13	8°234	12°021
53233	8	17°803	3°432	53307	9	15°811	5°909	53381	8	10°784	7°282	53455	15	25°954	9°660	53529	13	8°275	12°522
53234	13	18°204	3°880	53308*	23	16°254	5°977	53382	7	13°989	7°325	53456	16	0°293	10°504	53530	8	8°739	12°797
53235	12	18°325	3°837	53309	19	16°413	5°418	53383	13	14°809	7°264	53457	12	0°824	10°697	53531	12	10°213	12°531
53236	11	19°059	3°290	53310	6	16°604	5°464	53384*	37	15°178	7°308	53458	12	2°542	10°992	53532	8	10°658	12°660
53237	7	19°971	3°161	53311	22	17°412	5°070	53385	11	16°098	7°437	53459*	22	3°747	10°372	53533*	18	10°832	12°226
53238	8	21°023	3°846	53312	6	17°466	5°693	53386	9	18°075	7°196	53460	8	4°241	10°162	53534	7	11°011	12°185
53239	8	21°307	3°949	53313	9	17°737	5°058	53387	6	18°546	7°265	53461	11	4°612	10°646	53535	13	12°437	12°161
53240	7	21°474	3°402	53314	13	18°034	5°453	53388	14	19°101	7°965	53462	16	5°340	10°143	53536	9	14°831	12°004
53241	11	22°906	3°649	53315	14	18°247	5°816	53389	6	19°653	7°507	53463	6	5°551	10°987	53537*	27	15°679	12°202
53242	12	23°185	3°596	53316	7	18°524	5°854	53390	5	20°536	7°202	53464	9	6°275	10°336	53538	10	16°348	12°594
53243	7	23°836	3°707	53317	14	18°594	5°301	53391	13	20°747	7°168	53465	16	6°434	10°954	53539	8	16°907	12°895
53244	10	24°144	3°563	53318	12	20°896	5°654	53392	17	21°388	7°468	53466	6	8°574	10°505	53540	12	17°150	12°997
53245	5	25°373	3°894	53319	8	21°378	5°631	53393	8	21°876	7°163	53467	6	9°121	10°283	53541	11	17°847	12°766
53246	14	25°476	3°647	53320	6	22°263	5°373	53394	8	22°551	7°732	53468	7	9°922	10°824	53542	9	18°163	12°253
53247	7	25°525	3°720	53321	9	22°702	5°024	53395	7	22°904	7°353	53469	22	10°275	10°327	53543	7	18°342	12°708
53248	14	0°587	4°500	53322	7	23°709	5°255	53396	13	23°390	7°667	53470	14	11°278	10°688	53544	6	19°189	12°641
53249	13	2°592	4°097	53323	18	24°337	5°207	53397	6	23°853	7°017	53471	10	13°005	10°182	53545	7	20°271	12°522
53250	6	4°208	4°064	53324	11	24°615	5°511	53398	9	24°105	7°470	53472	13	13°517	10°221	53546	12	20°908	12°081
53251	11	4°233	4°922	53325	6	24°698	5°906	53399	9	24°161	7°588	53473	6	14°765	10°413	53547*	33	21°557	12°192
53252	14	4°407	4°631	53326*	40	24°953	5°695	53400	7	1°177	8°844	53474	10	15°649	10°613	53548	9	22°625	12°507
53253	8	4°514	4°475	53327*	34	25°498	5°008	53401	18	1°574	8°135	53475	7	16°743	10°330	53549	7	23°223	12°543
53254	18	5°572	4°434	53328	12	0°646	5°001	53402	14	2°903	8°426	53476	11	17°415	10°480	53550	9	24°801	12°682
53255	10	5°701	4°623	53329	11	1°459	6°734	53403	22	3°064	8°087	53477	19	17°615	10°411	53551	13	25°048	12°646
53256	9	5°990	4°402	53330	7	2°213	6°245	53404	8	4°578	8°952	53478	10	17°821	10°885	53552	18	25°622	12°370
53257	5	6°946	4°689	53331	6	2°702	6°274	53405	9	5°621	8°224	53479	9	21°372	10°684	53553	17	1°559	13°468
53258*	32	9°376	4°214	53332	8	4°183	6°376	53406	8	6°778	8°413	53480	7	21°557	10°985	53554	11	2°503	13°031
53259	9	9°832	4°693	53333	9	5°034	6°380	53407	5	6°811	8°113	53481	11	23°809	10°004	53555	14	3°084	13°885
53260	8	10°204	4°978	53334	16	6°697	6°870	53408	6	11°072	8°655	53482	6	24°074	10°718	53556	8	3°087	13°589
53261	7	10°800	4°724	53335	5	6°864	6°369	53409	7	12°046	8°639	53483	11	24°579	10°728	53557	15	4°215	13°124
53262	8	11°079	4°911	53336	17	7°202	6°014	53410	17	12°442	8°344	53484	9	0°496	11°924	53558	6	5°883	13°120
53263*	30	11°461	4°994	53337	12	7°286	6°907	53411	7	14°569	8°217	53485	14	0°704	11°204	53559	6	5°936	13°498
53264	9	13°239	4°407	53338	7	9°685	6°441	53412	6	15°309	8°930	53486*	28	1°189	11°563	53560	17	7°850	13°304
53265	14	13°364	4°975	53339	13	9°903	6°576	53413	15	15°908	8°845	53487	10	1°510	11°372	53561	5	8°158	13°264
53266	7	13°781	4°498	53340	12	10°356	6°413	53414	14	16°017	8°492	53488	8	1°814	11°303	53562	17	8°264	13°533
53267	15	14°159	4°966	53341	22	10°529	6°231	53415	8	18°616	8°257	53489	10	2°307	11°118	53563	7	9°024	13°840
53268	16	15°477	4°405	53342	14	10°605	6°691	53416	7	18°748	8°239	53490	12	2°404	11°525	53564	8	9°745	13°276
53269	11	15°939	4°227	53343	5	11°468	6°454	53417	11	19°207	8°751	53491	7	2°503	11°565	53565	8	10°244	13°103
53270	17	17°603	4°330	53344	10	13°141	6°355	53418	12	20°947	8°084	53492	9	2°774	11°442	53566	11	11°285	13°777
53271	9	18°726	4°358	53345	7	13°716	6°051	53419	10	21°999	8°429	53493	6	2°887	11°424	53567	12	12°602	13°136
53272	7	18°942	4°512	53346	19	14°654	6°577	53420	5	22°749	8°293	53494	8	3°141	11°863	53568	17	13°474	13°508
53273	6	21°103	4°354	53347	17	14°665	6°084	53421	11	23°897	8°399	53495	18	3°446	11°798	53569	16	14°856	13°329
53274	8	21°111	4°747	53348	21	14°937	6°953	53422	13	23°956	8°728	53496	7	4°449	11°086	53570	10	16°783	13°800
53275	17	21°245	4°432	53349	18	15°666	6°404	53423	11	24°243	8°987	53497	13	6°138	11°363	53571	9	16°900	13°121
53276	8	24°209	4°297	53350	14	17°523	6°919	53424	8	25°126	8°005	53498	11	6°961	11°973	53572*	27	18°841	13°724
53277	14	25°421	4°979	53351	8	18°208	6°501	53425	11	25°382	8°749	53499	6	8°317	11°404	53573	17	19°371	13°219
53278	17	1°498	5°086	53352	6	18°303	6°375	53426	21	0°510	9°757	53500	18	8°339	11°274	53574	10	20°218	13°242
53279	22	1°811	5°883	53353	9	18°753	6°330	53427	8	2°210	9°465	53501	9	9°010	11°479	53575	8	20°266	13°605
53280	6	2°016	5°708	53354	21	19°706	6°934	53428	7	3°974	9°817	53502	14	9°292	11°870	53576	14	21°352	13°914
53281	7	3°115	5°457	53355	10	20°755	6°327	53429	8	6°075	9°207	53503	11	9°531	11°948	53577	10	21°543	13°716
53282	21	3°586	5°921	53356	14	20°922	6°906	53430	14	6°244	9°005	53504	8	10°686	11°314	53578	18	21°571	13°735
53283	7	5°204	5°502	53357	15	23°108	6°025	53431	7	6°262	9°481	53505	8	11°533	11°445	53579	14	21°693	13°203
53284	11	5°628	5°252	53358	16	23°459	6°012	53432*	23	6°438	9°812	53506	12	11°626	11°668	53580	6	22°524	13°643
53285	7	6°437	5°263	53359	12	24°667	6°285	53433	13	6°515	9°573	53507*	54	15°072	11°990	53581	6	23°044	13°145
53286	15	6°903	5°939	53360	17	24°688	6°524	53434	9	7°415	9°890	53508	13	18°837	11°352	53582	14	25°598	13°461
53287	6	7°801	5°294	53361	12	25°519	6°525	53435	8	7°531	9°068	53509*	23	18°974	11°062	53583	19	25°886	13°296
53288*	38	7°877	5°476	53362	18	25°543	6°550	53436	5	7°609	9°905	53510	5	19°305	11°559	53584	19	0°627	14°957
53289	14	7°986	5°913	53363	13	0°267	7°081	53437	5	7°821	9°821	53511	10	19°624	11°109	53585*	22	2°440	14°240
53290	13	8°094	5°285	53364	10	1°128	7°897	53438	8	9°124	9°855	53512	7	20°692	11°910	53586	7	2°482	14°322
53291	12	8°459	5°047	53365	7	1°479	7°559	53439	13	11°917	9°577	53513	14	22°101	11°580	53587	6	3°774	14°179
53292	11	8°563	5°046	53366	8	1°652	7°116	53440	9	12°382	9°931	53514	13	22°216	11°267	53588	10	5°083	14°947
53293	23	8°908	5°113	53367	17	2°188	7°653	53441	20	13°176	9°069	53515	8	22°367	11°283	53589	18	5°297	14°183
53294	9	8°969	5°534	53368	7	3°126	7°629	53442											

53601	8	19'441	14'795	53675	8	13'024	16'917	53749	11	2'724	19'412	53823	9	24'931	20'744	53897	8	15'052	23'626
53602	13	19'561	14'874	53676	7	14'062	16'495	53750	14	3'609	19'674	53824	17	24'954	20'323	53898	13	16'044	23'660
53603	6	20'368	14'831	53677	7	15'103	16'046	53751	7	4'652	19'244	53825	16	0'526	21'288	53899	12	16'079	23'115
53604	9	20'678	14'648	53678	6	15'360	16'909	53752	13	4'955	19'601	53826	15	1'483	21'796	53900	16	16'788	23'737
53605	14	20'914	14'870	53679	8	16'424	16'917	53753	13	5'025	19'193	53827	13	2'016	21'752	53901	8	16'921	23'825
53606	8	21'388	14'791	53680	17	17'614	16'563	53754	16	6'191	19'814	53828	11	2'044	21'800	53902	8	17'646	23'639
53607	14	21'696	14'744	53681	19	18'098	16'435	53755	9	6'727	19'242	53829	8	3'487	21'073	53903	10	19'133	23'263
53608	7	23'124	14'761	53682	13	18'902	16'400	53756	16	6'734	19'587	53830	17	3'777	21'865	53904	27	19'531	23'363
53609	13	23'717	14'465	53683	7	19'220	16'775	53757	8	6'852	19'784	53831	8	4'252	21'870	53905	6	19'767	23'662
53610	8	24'162	14'510	53684	21	19'265	16'564	53758	9	7'037	19'137	53832	11	6'585	21'704	53906	8	20'049	23'678
53611	18	24'645	14'072	53685	8	20'329	16'947	53759	27	7'327	19'454	53833	22	8'701	21'969	53907	20	20'544	23'964
53612	8	24'799	14'614	53686	9	20'664	16'364	53760	18	8'580	19'082	53834	9	9'523	21'295	53908	15	22'592	23'328
53613	21	24'927	14'969	53687	34	21'820	16'163	53761	8	8'789	19'033	53835	16	10'062	21'180	53909	7	23'512	23'152
53614	12	25'237	14'075	53688	7	22'644	16'589	53762	13	9'353	19'521	53836	7	11'617	21'609	53910	8	24'722	23'623
53615	7	25'615	14'231	53689	25	22'942	16'837	53763	8	9'421	19'460	53837	7	12'930	21'357	53911	9	0'601	24'702
53616	5	0'156	15'548	53690	7	23'619	16'568	53764	8	10'199	19'882	53838	6	13'556	21'673	53912	28	1'197	24'653
53617	12	0'337	15'612	53691	11	25'784	16'224	53765	7	10'944	19'190	53839	14	15'337	21'156	53913	7	1'699	24'311
53618	14	0'343	15'713	53692	13	1'882	17'421	53766	14	12'345	19'728	53840	7	15'384	21'738	53914	23	1'805	24'410
53619	13	1'056	15'928	53693	13	2'065	17'884	53767	8	13'016	19'938	53841	9	15'534	21'065	53915	7	2'527	24'738
53620	14	1'891	15'931	53694	8	2'526	17'998	53768	13	15'069	19'884	53842	7	15'824	21'918	53916	9	2'551	24'263
53621	13	2'008	15'736	53695	7	3'347	17'260	53769	17	15'795	19'501	53843	8	15'878	21'739	53917	16	4'504	24'016
53622	14	2'821	15'764	53696	13	3'944	17'190	53770	13	17'132	19'030	53844	16	16'034	21'241	53918	20	5'383	24'786
53623	7	2'976	15'825	53697	7	5'863	17'023	53771	14	17'558	19'068	53845	16	16'905	21'126	53919	16	6'450	24'854
53624	9	3'006	15'087	53698	15	6'072	17'514	53772	14	18'131	19'799	53846	14	17'347	21'073	53920	12	6'464	24'368
53625	16	3'144	15'331	53699	8	6'697	17'406	53773	12	18'174	19'433	53847	6	18'918	21'768	53921	15	6'858	24'153
53626	15	3'786	15'024	53700	8	8'125	17'962	53774	19	19'571	19'484	53848	14	19'218	21'151	53922	14	9'103	24'197
53627	8	4'198	15'698	53701	7	9'072	17'784	53775	14	19'780	19'483	53849	9	21'273	21'364	53923	6	9'511	24'379
53628	14	4'554	15'017	53702	6	9'474	17'409	53776	15	21'730	19'519	53850	12	21'819	21'685	53924	10	10'667	24'922
53629	7	5'094	15'579	53703	24	11'257	17'011	53777	40	22'348	19'027	53851	10	23'397	21'723	53925	5	10'973	24'268
53630	15	6'955	15'576	53704	20	11'652	17'719	53778	13	22'677	19'876	53852	14	24'959	21'627	53926	6	11'166	24'645
53631	7	7'566	15'846	53705	10	11'837	17'643	53779	8	22'691	19'273	53853	13	1'518	22'469	53927	13	11'300	24'722
53632	24	8'226	15'009	53706	6	14'473	17'822	53780	9	0'518	20'552	53854	7	2'898	22'830	53928	7	12'952	24'233
53633	7	8'897	15'304	53707	6	15'188	17'077	53781	18	0'834	20'931	53855	8	3'934	22'673	53929	15	13'113	24'632
53634	10	9'096	15'482	53708	7	16'136	17'734	53782	23	1'398	20'500	53856	14	4'663	22'669	53930	7	14'345	24'836
53635	8	9'158	15'183	53709	14	16'708	17'616	53783	10	1'880	20'774	53857	10	5'324	22'833	53931	10	14'897	24'790
53636	14	9'353	15'720	53710	11	17'095	17'065	53784	7	2'189	20'007	53858	17	5'725	22'380	53932	8	15'882	24'354
53637	13	9'484	15'604	53711	8	17'827	17'275	53785	14	2'769	20'578	53859	9	5'741	22'492	53933	14	16'063	24'638
53638	6	10'253	15'547	53712	9	18'138	17'820	53786	19	3'747	20'294	53860	7	6'164	22'044	53934	9	16'406	24'213
53639	18	11'482	15'432	53713	6	18'289	17'416	53787	13	3'955	20'775	53861	8	6'822	22'135	53935	18	17'300	24'201
53640	6	12'217	15'014	53714	7	18'616	17'352	53788	5	4'094	20'862	53862	6	7'076	22'704	53936	15	17'756	24'151
53641	15	14'606	15'279	53715	10	18'876	17'060	53789	8	4'745	20'601	53863	7	8'971	22'239	53937	12	18'340	24'148
53642	22	15'192	15'177	53716	12	20'661	17'387	53790	5	4'859	20'422	53864	13	9'407	22'539	53938	9	19'114	24'295
53643	15	17'789	15'901	53717	12	21'427	17'323	53791	17	5'322	20'211	53865	8	9'787	22'562	53939	9	19'476	24'999
53644	19	18'320	15'679	53718	9	21'427	17'954	53792	8	5'379	20'904	53866	9	10'364	22'117	53940	16	21'016	24'409
53645	16	19'032	15'411	53719	10	23'468	17'561	53793	15	5'623	20'782	53867	7	11'418	22'328	53941	18	22'467	24'423
53646	13	19'101	15'413	53720	10	23'604	17'322	53794	8	7'171	20'538	53868	13	11'955	22'823	53942	11	23'883	24'371
53647	6	19'161	15'732	53721	14	1'705	18'521	53795	32	7'347	20'721	53869	8	13'715	22'189	53943	18	24'535	24'409
53648	9	19'508	15'271	53722	7	2'274	18'542	53796	14	9'222	20'753	53870	10	14'014	22'229	53944	27	1'413	25'357
53649	10	20'134	15'016	53723	8	3'972	18'699	53797	7	9'834	20'786	53871	6	14'356	22'873	53945	7	2'746	25'279
53650	18	20'157	15'676	53724	9	4'035	18'646	53798	9	10'036	20'890	53872	22	14'947	22'612	53946	16	3'155	25'578
53651	13	21'364	15'847	53725	12	4'155	18'746	53799	20	10'193	20'854	53873	8	15'406	22'439	53947	15	3'482	25'512
53652	11	21'493	15'322	53726	14	4'182	18'212	53800	8	11'549	20'718	53874	15	15'950	22'876	53948	16	4'668	25'065
53653	16	21'742	15'735	53727	9	4'517	18'603	53801	13	11'585	20'329	53875	17	16'027	22'792	53949	6	7'060	25'687
53654	14	21'814	15'094	53728	13	4'572	18'846	53802	20	11'668	20'683	53876	13	16'288	22'149	53950	7	7'104	25'851
53655	11	23'887	15'453	53729	6	6'685	18'429	53803	6	12'594	20'402	53877	5	18'523	22'095	53951	14	7'518	25'364
53656	8	0'795	16'697	53730	7	9'036	18'491	53804	8	13'140	20'847	53878	7	19'126	22'834	53952	11	7'989	25'387
53657	9	1'234	16'470	53731	12	9'471	18'230	53805	15	13'257	20'699	53879	12	21'610	22'044	53953	6	8'469	25'272
53658	21	1'715	16'705	53732	7	11'066	18'632	53806	13	13'769	20'055	53880	15	22'796	22'302	53954	7	10'966	25'629
53659	10	2'081	16'141	53733	8	11'570	18'816	53807	9	14'268	20'611	53881	7	22'946	22'491	53955	6	11'577	25'227
53660	22	2'344	16'775	53734	14	11'596	18'192	53808	16	14'284	20'028	53882	7	23'294	22'913	53956	12	12'084	25'288
53661	14	3'121	16'451	53735	5	12'740	18'444	53809	12	15'646	20'838	53883	11	23'736	22'769	53957	57	12'423	25'587
53662	21	3'614	16'728	53736	16	14'436	18'303	53810	11	15'667	20'666	53884	15	1'126	23'628	53958	55	12'425	25'641
53663	7	4'763	16'111	53737	10	17'488	18'667	53811	8	17'									

54353	7	5°47'	12°51'	54427	10	11°41'	14°11'	54501	9	16°59'	16°83'	54575	10	22°25'	18°78'	54649	10	1°94'	21°95'
54354	10	6°49'	12°59'	54428	9	11°61'	14°30'	54502	7	17°92'	16°22'	54576*	43	24°102'	18°778'	54650	11	2°693'	21°076'
54355	8	8°32'	12°700'	54429	5	11°795'	14°032'	54503	10	18°820'	16°598'	54577	10	24°249'	18°140'	54651	20	3°508'	21°861'
54356	10	8°372'	12°630'	54430	14	11°838'	14°827'	54504*	33	19°252'	16°359'	54578	19	25°560'	18°911'	54652	11	5°412'	21°778'
54357	11	8°709'	12°264'	54431	20	12°371'	14°779'	54505*	22	20°899'	16°266'	54579	21	25°631'	18°313'	54653	14	5°765'	21°567'
54358	9	9°092'	12°336'	54432	9	15°395'	14°178'	54506	10	21°173'	16°309'	54580	20	0°272'	19°764'	54654	20	5°883'	21°456'
54359	5	9°578'	12°181'	54433	10	17°633'	14°826'	54507	11	21°612'	16°781'	54581*	65	0°889'	19°272'	54655	10	6°107'	21°108'
54360*	30	10°065'	12°054'	54434	10	17°932'	14°893'	54508	10	22°993'	16°770'	54582	11	4°597'	19°075'	54656	18	6°133'	21°863'
54361	9	10°263'	12°544'	54435	6	18°779'	14°959'	54509	10	23°341'	16°186'	54583	18	6°691'	19°659'	54657	10	7°384'	21°060'
54362	22	10°547'	12°034'	54436	16	19°218'	14°912'	54510*	47	1°474'	17°080'	54584*	34	6°819'	19°510'	54658	15	7°673'	21°559'
54363	10	11°606'	12°213'	54437	19	20°108'	14°925'	54511	20	2°002'	17°800'	54585	20	9°785'	19°991'	54659	14	8°218'	21°775'
54364	10	13°503'	12°600'	54438	14	20°710'	14°294'	54512	10	2°138'	17°559'	54586	11	10°501'	19°366'	54660	12	8°989'	21°042'
54365	6	14°652'	12°689'	54439	20	22°351'	14°527'	54513	30	4°573'	17°653'	54587	10	11°030'	19°905'	54661	20	9°235'	21°441'
54366	9	15°002'	12°264'	54440	8	22°815'	14°983'	54514	10	4°948'	17°472'	54588	20	11°089'	19°685'	54662	9	9°627'	21°243'
54367*	29	16°332'	12°604'	54441	10	22°936'	14°414'	54515	10	6°368'	17°600'	54589	12	11°223'	19°321'	54663	9	11°495'	21°826'
54368*	20	16°998'	12°569'	54442	15	24°185'	14°590'	54516	11	6°700'	17°064'	54590	9	12°971'	19°049'	54664	11	12°089'	21°598'
54369	9	17°767'	12°347'	54443	12	24°951'	14°893'	54517	20	7°889'	17°008'	54591	18	13°337'	19°702'	54665	10	12°177'	21°531'
54370	19	18°541'	12°489'	54444	11	24°976'	14°481'	54518	10	8°287'	17°286'	54592	17	13°468'	19°269'	54666*	37	12°353'	21°952'
54371	9	19°142'	12°431'	54445	19	25°192'	14°072'	54519	10	9°784'	17°987'	54593	10	14°789'	19°236'	54667	13	12°637'	21°058'
54372	13	19°437'	12°563'	54446	11	25°896'	14°855'	54520	11	11°024'	17°852'	54594	20	15°028'	19°183'	54668	20	12°800'	21°012'
54373	9	20°044'	12°116'	54447	10	0°015'	15°567'	54521	6	12°001'	17°417'	54595	7	15°845'	19°401'	54669	16	13°014'	21°707'
54374	8	20°621'	12°891'	54448	19	0°268'	15°981'	54522	8	12°402'	17°427'	54596	7	15°868'	19°246'	54670	19	13°074'	21°665'
54375	5	22°131'	12°630'	54449	12	0°335'	15°339'	54523	10	12°531'	17°956'	54597	12	16°078'	19°962'	54671	16	14°402'	21°196'
54376*	33	22°760'	12°608'	54450	11	2°411'	15°689'	54524	11	13°125'	17°349'	54598	19	16°463'	19°809'	54672	11	14°641'	21°372'
54377	20	23°674'	12°699'	54451	27	3°452'	15°202'	54525	6	13°510'	17°136'	54599	9	16°736'	19°446'	54673	20	14°943'	21°008'
54378	8	24°023'	12°751'	54452*	40	5°083'	15°962'	54526	8	14°026'	17°227'	54600	15	16°884'	19°795'	54674	9	15°026'	21°767'
54379	14	24°150'	12°712'	54453	19	5°084'	15°715'	54527	18	14°580'	17°854'	54601	23	17°729'	19°428'	54675	16	15°949'	21°032'
54380	9	24°892'	12°701'	54454	20	6°101'	15°749'	54528	6	15°171'	17°092'	54602	11	17°837'	19°734'	54676	9	16°061'	21°178'
54381	10	25°234'	12°913'	54455	10	8°243'	15°234'	54529	11	15°454'	17°036'	54603	8	17°964'	19°332'	54677	21	16°357'	21°231'
54382	11	25°921'	12°107'	54456	5	10°304'	15°992'	54530	10	15°479'	17°958'	54604	12	18°145'	19°909'	54678	10	17°406'	21°383'
54383	23	0°089'	13°982'	54457	15	11°077'	15°075'	54531	7	15°955'	17°170'	54605	10	18°374'	19°273'	54679	11	17°605'	21°818'
54384	18	0°207'	13°447'	54458	11	11°540'	15°222'	54532	11	16°397'	17°282'	54606	11	19°265'	19°878'	54680	14	17°796'	21°047'
54385	6	2°549'	13°636'	54459	7	11°568'	15°534'	54533	20	18°251'	17°429'	54607	9	19°574'	19°967'	54681	19	19°245'	21°978'
54386	18	4°116'	13°690'	54460	27	11°635'	15°035'	54534	17	18°347'	17°446'	54608	9	20°262'	19°281'	54682*	22	19°559'	21°535'
54387	22	4°404'	13°527'	54461	9	12°179'	15°916'	54535	10	19°059'	17°549'	54609	11	20°424'	19°130'	54683*	21	19°706'	21°913'
54388	6	4°913'	13°875'	54462	11	12°509'	15°405'	54536	9	19°522'	17°204'	54610	17	21°142'	19°424'	54684	12	19°728'	21°789'
54389	9	7°600'	13°977'	54463	10	13°784'	15°183'	54537*	29	20°435'	17°763'	54611	14	21°235'	19°958'	54685	19	19°786'	21°361'
54390	11	8°163'	13°461'	54464	10	14°078'	15°852'	54538	8	20°908'	17°610'	54612	6	22°021'	19°983'	54686	6	20°643'	21°513'
54391	10	8°375'	13°249'	54465	12	14°299'	15°578'	54539	5	21°652'	17°110'	54613	8	22°097'	19°745'	54687	20	21°132'	21°804'
54392	22	9°843'	13°314'	54466	6	14°332'	15°314'	54540	19	22°056'	17°760'	54614	23	24°041'	19°998'	54688	20	21°764'	21°638'
54393	10	10°336'	13°006'	54467	8	16°257'	15°184'	54541	20	22°185'	17°200'	54615	15	1°222'	20°115'	54689	9	22°377'	21°421'
54394	7	10°907'	13°078'	54468	15	16°693'	15°343'	54542	14	22°207'	17°137'	54616	8	1°436'	20°905'	54690	10	23°018'	21°709'
54395	8	11°470'	13°307'	54469	10	18°048'	15°716'	54543	20	22°981'	17°155'	54617	10	3°478'	20°974'	54691*	37	23°075'	21°924'
54396	17	11°668'	13°418'	54470	10	18°504'	15°593'	54544	11	23°026'	17°960'	54618	22	3°501'	20°553'	54692	11	24°671'	21°452'
54397	20	13°961'	13°407'	54471	8	18°809'	15°732'	54545	20	24°858'	17°167'	54619*	42	4°549'	20°270'	54693	23	25°465'	21°609'
54398	10	14°165'	13°519'	54472	10	19°112'	15°617'	54546	11	25°463'	17°526'	54620	14	7°053'	20°418'	54694	11	1°348'	22°541'
54399	15	15°292'	13°923'	54473	13	19°365'	15°196'	54547	11	25°961'	17°539'	54621	7	7°495'	20°297'	54695	19	7°184'	22°195'
54400	9	15°411'	13°183'	54474	8	19°687'	15°402'	54548	9	0°352'	18°337'	54622	13	8°285'	20°801'	54696	10	8°567'	22°344'
54401	12	19°367'	13°499'	54475	16	22°103'	15°681'	54549	21	2°153'	18°986'	54623	18	9°200'	20°698'	54697	12	11°590'	22°419'
54402	7	19°468'	13°222'	54476	7	23°157'	15°082'	54550	17	2°176'	18°859'	54624	13	9°228'	20°174'	54698	10	12°648'	22°552'
54403	18	21°511'	13°518'	54477	15	24°400'	15°029'	54551*	31	2°687'	18°323'	54625	12	11°205'	20°992'	54699	7	15°362'	22°500'
54404	12	21°717'	13°413'	54478	12	25°167'	15°768'	54552	25	2°704'	18°474'	54626	14	11°772'	20°116'	54700	13	21°259'	22°158'
54405	11	21°913'	13°850'	54479	11	25°356'	15°535'	54553	20	4°118'	18°567'	54627	6	12°923'	20°749'	54701	11	21°660'	22°694'
54406	19	23°131'	13°111'	54480*	53	0°349'	16°410'	54554	12	7°201'	18°505'	54628	9	12°943'	20°447'	54702	20	23°482'	22°552'
54407	17	23°765'	13°780'	54481	12	4°313'	16°452'	54555	20	8°288'	18°090'	54629	8	14°194'	20°293'	54703	10	24°191'	22°721'
54408	12	25°620'	13°226'	54482	9	5°854'	16°466'	54556	9	10°848'	18°400'	54630	8	14°248'	20°809'	54704	19	24°423'	22°648'
54409	17	0°218'	14°989'	54483	20	6°896'	16°607'	54557	11	11°703'	18°248'	54631	6	14°651'	20°270'	54705	24	25°152'	22°831'
54410	11	2°237'	14°700'	54484	11	7°098'	16°028'	54558	19	11°733'	18°211'	54632	9	15°099'	20°915'	54706	21	25°779'	22°172'
54411	10	2°682'	14°744'	54485	12	7°580'	16°125'	54559	9	11°992'	18°726'	54633	7	16°665'	20°022'	54707	20	1°152'	23°567'
54412	21	3°164'	14°305'	54486*	29	8°017'	16°276'	54560	13	12°247'	18°171'	54634	6	17°196'	20°567'	54708	9	2°289'	23°006'
54413	11	3°319'	14°845'	54487	10	8°511'	16°660'	54561	10	13°097'	18°836'	54635	5	17°361'	20°722'	54709	11	3°281'	23°855'
54414	15	3°758'	14°306'	54488	19	11°837'	16°037'	54562	10	13°303'	18°094'	54636	15	17°638'	20°683'	54710	12	7°076'	23°338'
54415	8	4°																	

54723	17	13°8'14	23°08'7	<div>R. A. 18^h 20^m</div> <div>Plate 2673; 1908 Sept. 30.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-00020 -00482 +3341</div> <div>D E F</div> <div>+00423 -00014 -3192</div> <div>Mag. = 15.5 - 1.25√d</div>	54857	12	12°7'42	2°8'42	54931	11	25°45'8	4°27'3	55005	19	10°8'68	7°23'7
54724	8	15°9'98	23°6'34		54858	9	13°2'60	2°45'1	54932	7	25°59'2	4°50'6	55006	16	11°0'32	7°35'2
54725	18	16°0'99	23°4'53		54859	8	16°0'89	2°79'2	54933	25	0°47'5	5°63'2	55007	8	11°1'64	7°65'7
54726	17	16°2'07	23°1'42		54860	9	16°6'72	2°23'9	54934	17	1°36'4	5°07'8	55008	9	11°2'58	7°99'3
54727	10	16°7'88	23°1'93		54861	9	17°1'44	2°74'3	54935	9	1°50'5	5°54'8	55009	10	11°2'60	7°25'4
54728	7	17°7'69	23°1'77		54862	13	17°7'68	2°44'9	54936	11	2°32'1	5°63'9	55010	14	12°1'22	7°77'9
54729	20	18°6'34	23°2'99		54863	12	18°0'79	2°05'7	54937	8	2°37'8	5°00'1	55011	8	12°8'42	7°18'7
54730	10	18°7'23	23°5'53		54864	6	18°5'75	2°26'8	54938	9	2°87'3	5°17'7	55012	8	12°8'68	7°29'1
54731	21	19°4'52	23°8'31		54865	16	18°9'85	2°41'1	54939	14	3°69'2	5°76'4	55013	9	14°3'00	7°70'2
54732	23	20°0'27	23°8'90		54866	9	20°7'32	2°11'2	54940	12	3°78'7	5°32'8	55014	8	15°0'14	7°34'1
54733	28	20°3'81	23°8'09	54867	9	21°1'43	2°52'2	54941	8	4°9'00	5°44'0	55015	13	15°9'60	7°83'0	
54734	12	21°8'12	23°8'12	54868	10	21°4'13	2°64'8	54942	11	6°30'8	5°53'7	55016	9	16°2'86	7°07'0	
54735	22	21°8'16	23°6'81	54869	8	21°7'62	2°14'5	54943	9	6°58'4	5°25'4	55017	11	16°4'63	7°02'1	
54736	11	22°4'55	23°9'15	54870	9	23°6'64	2°55'2	54944	8	7°31'4	5°49'4	55018	11	17°7'34	7°25'2	
54737	19	24°9'62	23°3'18	54871	20	23°9'29	2°01'8	54945	12	10°6'47	5°33'7	55019	13	18°3'89	7°82'0	
54738	12	25°2'89	23°8'60	54872*	40	3°5'38	3°85'1	54946	5	10°6'78	5°33'2	55020	8	18°5'84	7°67'7	
54739	36	1°03'0	24°6'64	54873	22	3°6'33	3°35'4	54947	8	10°7'43	5°08'9	55021	10	18°7'30	7°97'8	
54740	10	2°44'3	24°6'07	54874	10	4°8'73	3°89'2	54948	7	10°8'52	5°24'5	55022	9	19°0'37	7°51'3	
54741	31	3°09'6	24°6'38	54875*	24	5°7'59	3°83'1	54949	9	11°2'61	5°46'1	55023	10	20°3'34	7°88'8	
54742	12	8°9'87	24°8'84	54876	15	6°2'92	3°86'4	54950*	35	11°5'02	5°15'7	55024	10	20°7'05	7°51'9	
54743	10	9°6'14	24°5'03	54877	8	6°4'93	3°24'3	54951	13	11°8'17	5°94'9	55025	8	20°7'88	7°60'4	
54744	8	10°4'72	24°7'44	54878	11	7°6'36	3°49'9	54952	8	11°9'18	5°20'4	55026	8	20°9'43	7°37'9	
54745*	19	10°9'31	24°5'23	54879	8	12°4'43	3°57'1	54953	13	13°1'43	5°44'9	55027	8	20°9'61	7°90'1	
54746	7	12°9'76	24°0'96	54880	6	15°3'58	3°09'4	54954	8	13°1'87	5°72'5	55028	7	21°4'43	7°67'4	
54747	8	13°4'07	24°6'88	54881	9	15°8'78	3°47'1	54955	18	14°2'92	5°09'7	55029	6	23°5'61	7°31'9	
54748	10	16°1'25	24°8'30	54882	7	15°9'97	3°42'2	54956	22	14°4'54	5°67'5	55030	8	23°8'82	7°21'8	
54749	10	16°5'02	24°8'32	54883	21	17°8'98	3°68'8	54957	10	14°7'51	5°12'2	55031	6	24°1'10	7°92'9	
54750	8	16°6'53	24°8'65	54884	8	17°9'66	3°12'3	54958	10	16°2'06	5°69'9	55032	7	24°1'14	7°56'9	
54751	16	16°7'25	24°2'59	54885	7	18°5'65	3°60'4	54959	8	16°6'43	5°76'8	55033	9	24°4'31	7°94'1	
54752	10	17°6'44	24°2'85	54886	10	18°7'17	3°26'9	54960	9	17°3'93	5°9'16	55034	11	24°8'42	7°60'1	
54753	11	19°2'99	24°7'01	54887	8	19°2'71	3°56'2	54961	14	18°9'68	5°65'5	55035	10	0°5'99	8°14'7	
54754	7	19°7'81	24°8'67	54888	19	20°8'06	3°01'3	54962*	20	20°8'39	5°99'6	55036	9	2°6'99	8°94'8	
54755	11	20°6'35	24°4'94	54889	21	21°1'94	3°14'8	54963	9	21°0'78	5°93'2	55037	8	4°9'73	8°05'1	
54756	18	21°8'95	24°6'39	54890	13	21°8'81	3°35'2	54964	11	21°9'04	5°74'2	55038	12	5°6'89	8°80'9	
54757*	21	22°2'08	24°1'37	54891	18	22°4'43	3°50'3	54965	10	22°4'73	5°68'3	55039	10	6°1'28	8°52'7	
54758	8	3°9'00	25°8'88	54892	21	22°6'17	3°33'9	54966	10	22°7'88	5°32'2	55040	10	6°1'61	8°68'0	
54759	17	6°2'00	25°4'33	54893	9	22°7'94	3°87'8	54967	11	23°4'39	5°92'1	55041	21	7°6'28	8°52'8	
54760	18	9°8'36	25°7'35	54894	13	23°3'17	3°00'9	54968	9	23°5'02	5°91'3	55042	10	7°9'04	8°06'2	
54761	10	9°8'61	25°9'25	54895	21	23°35'1	3°04'1	54969	12	25°1'01	5°84'5	55043*	23	8°4'92	8°67'1	
54762*	24	10°44'1	25°1'64	54896	12	23°37'8	3°05'7	54970	9	0°8'76	6°6'36	55044	11	8°5'57	8°22'1	
54763*	26	11°9'28	25°3'85	54897	11	25°3'60	3°99'3	54971	8	3°59'7	6°35'3	55045	9	8°6'51	8°30'6	
54764	16	11°9'33	25°7'11	54898	10	0°7'45	4°89'2	54972	12	5°18'0	6°22'8	55046	22	8°7'12	8°06'8	
54765	15	12°3'88	25°9'53	54899	11	1°3'88	4°68'3	54973	6	5°36'1	6°42'3	55047	12	9°3'38	8°16'2	
54766*	23	12°4'60	25°3'05	54900	17	1°6'57	4°58'7	54974	9	5°87'3	6°12'8	55048	11	10°1'13	8°07'9	
54767	17	12°6'08	25°8'41	54901	6	2°8'76	4°10'9	54975	19	6°06'3	6°62'7	55049*	22	10°8'28	8°73'1	
54768	10	12°8'69	25°1'50	54902	11	3°0'75	4°00'7	54976	15	8°5'89	6°73'6	55050	20	11°2'23	8°01'5	
54769	20	14°5'61	25°0'66	54903	22	3°0'83	4°80'8	54977	12	9°22'9	6°73'3	55051	9	15°1'07	8°30'9	
54770	10	14°7'14	25°9'73	54904	21	3°1'21	4°83'5	54978	11	10°12'1	6°98'0	55052	12	17°8'12	8°19'0	
54771	8	15°1'47	25°7'87	54905	9	4°1'46	4°65'8	54979	20	10°23'2	6°96'5	55053	19	17°9'22	8°48'5	
54772	23	15°5'44	25°3'50	54906	7	4°6'43	4°69'7	54980	8	10°69'0	6°94'3	55054	8	18°1'03	8°40'8	
54773	16	15°7'67	25°8'96	54907	8	7°6'28	4°17'9	54981	13	10°8'00	6°20'1	55055	10	19°2'41	8°18'0	
54774*	20	16°9'78	25°0'72	54908	11	7°9'17	4°82'8	54982	12	11°9'73	6°94'3	55056	7	19°2'43	8°11'9	
54775*	35	17°0'83	25°5'38	54909	13	10°2'84	4°81'9	54983	7	13°6'91	6°24'1	55057	19	20°9'04	8°86'0	
54776	16	17°7'72	25°0'97	54910	10	14°0'19	4°32'7	54984	10	14°23'2	6°16'9	55058	14	23°1'78	8°20'1	
54777	13	20°2'94	25°2'25	54911	9	16°2'77	4°22'8	54985	7	16°5'86	6°66'7	55059*	50	23°2'67	8°42'9	
54778	21	21°0'32	25°6'79	54912	19	16°6'06	4°26'8	54986	11	16°9'04	6°46'6	55060	11	25°1'54	8°45'6	
54779	11	24°4'71	25°9'27	54913	11	17°0'53	4°39'7	54987	19	17°22'2	6°67'1	55061	12	25°7'51	8°90'8	
54780	11	25°3'26	25°7'08	54914	9	17°7'37	4°45'4	54988	10	17°31'6	6°120	55062	20	0°3'60	9°87'0	
				54915	10	18°3'59	4°37'8	54989								

55079	22	17°154	9°851	55153*	51	6°142	12°839	55227	13	10°792	14°340	55301	7	12°074	16°072	55375	18	19°926	18°757
55080	12	17°440	9°227	55154	9	6°467	12°394	55228	9	12°529	14°466	55302	9	12°116	16°767	55376	6	20°711	18°837
55081	11	17°642	9°461	55155	7	7°378	12°541	55229	6	12°565	14°228	55303	18	12°343	16°651	55377	9	21°443	18°253
55082	6	18°611	9°289	55156	15	8°794	12°772	55230	10	13°802	14°078	55304	7	12°424	16°749	55378	8	21°994	18°920
55083	10	19°470	9°889	55157	7	10°067	12°373	55231	8	14°337	14°778	55305*	19	12°933	16°795	55379	8	23°607	18°436
55084	9	20°945	9°846	55158	12	11°135	12°238	55232	6	14°729	14°135	55306	13	14°749	16°080	55380	7	24°560	18°709
55085	13	21°582	9°902	55159	19	12°004	12°691	55233	21	14°956	14°418	55307	10	15°069	16°446	55381	21	2°511	19°801
55086	7	21°722	9°472	55160	18	12°615	12°313	55234	9	15°217	14°962	55308	13	16°183	16°581	55382	17	4°769	19°702
55087	22	23°525	9°009	55161	10	14°739	12°384	55235	14	17°144	14°333	55309	8	17°410	16°660	55383	13	6°228	19°395
55088	20	23°525	9°568	55162	10	17°373	12°527	55236	10	18°419	14°848	55310	13	18°043	16°517	55384	10	6°669	19°067
55089	11	23°664	9°947	55163	9	17°715	12°129	55237	8	18°450	14°822	55311	10	19°425	16°213	55385	9	6°917	19°521
55090	19	23°676	9°288	55164*	22	17°725	12°751	55238*	21	19°284	14°787	55312	8	20°285	16°121	55386	10	7°306	19°608
55091	9	25°184	9°622	55165	12	17°869	12°474	55239	9	19°785	14°118	55313	11	20°417	16°783	55387	8	8°686	19°907
55092	20	25°338	9°543	55166	7	18°572	12°787	55240	8	20°023	14°612	55314	13	21°514	16°444	55388	7	9°414	19°942
55093	20	25°791	9°742	55167	9	19°560	12°682	55241	12	20°030	14°112	55315	13	21°672	16°127	55389	10	9°783	19°726
55094	19	1°190	10°042	55168	16	19°870	12°222	55242	19	20°475	14°863	55316	11	22°839	16°017	55390	13	10°244	19°457
55095	23	3°922	10°141	55169	15	20°122	12°898	55243	11	20°870	14°113	55317	8	23°117	16°518	55391	11	11°252	19°638
55096	11	4°817	10°436	55170	10	20°723	12°457	55244	12	21°023	14°183	55318	12	23°194	16°942	55392	9	11°357	19°511
55097	10	5°117	10°808	55171*	21	20°901	12°076	55245	8	21°217	14°655	55319	13	23°276	16°788	55393	8	12°356	19°344
55098	12	5°749	10°928	55172	9	21°065	12°608	55246	9	22°054	14°106	55320	21	23°435	16°876	55394	10	12°695	19°325
55099	12	6°074	10°805	55173	8	21°694	12°091	55247	7	24°493	14°345	55321	10	23°551	16°554	55395	6	12°722	19°852
55100	9	8°841	10°632	55174	9	22°191	12°561	55248	13	24°497	14°324	55322	8	24°347	16°758	55396	8	13°089	19°081
55101	10	9°900	10°757	55175	7	22°507	12°276	55249	7	25°638	14°473	55323	10	24°642	16°526	55397*	24	15°461	19°174
55102*	35	10°859	10°338	55176	9	23°243	12°479	55250	11	0°507	15°512	55324	10	25°278	16°186	55398*	23	16°555	19°508
55103	12	10°915	10°767	55177	8	24°489	12°282	55251	11	3°572	15°555	55325	16	0°490	17°593	55399	8	16°794	19°632
55104*	26	11°146	10°653	55178	8	24°774	12°891	55252	9	3°758	15°316	55326	18	0°611	17°032	55400	16	17°133	19°860
55105	8	12°497	10°190	55179	8	25°012	12°792	55253	7	4°261	15°598	55327	8	1°464	17°780	55401	9	18°126	19°870
55106	9	13°955	10°937	55180	10	0°084	13°251	55254	10	4°935	15°223	55328	7	2°691	17°942	55402	6	18°201	19°979
55107	15	15°619	10°399	55181	9	0°288	13°683	55255	8	5°040	15°098	55329	8	3°896	17°308	55403	12	18°295	19°689
55108	8	15°819	10°277	55182	14	2°139	13°587	55256	10	5°556	15°325	55330	10	4°394	17°312	55404	9	19°261	19°768
55109	9	15°012	10°862	55183	16	3°568	13°856	55257	8	6°025	15°311	55331	13	5°186	17°349	55405*	17	19°558	19°964
55110	11	19°177	10°499	55184	9	3°987	13°004	55258	9	6°188	15°077	55332	9	5°468	17°019	55406	8	19°575	19°817
55111*	21	19°452	10°925	55185	8	4°182	13°718	55259	8	6°494	15°489	55333	8	6°121	17°760	55407	9	20°380	19°247
55112*	24	19°593	10°894	55186	11	4°644	13°622	55260	6	6°553	15°563	55334	13	6°524	17°622	55408	10	20°638	19°409
55113	11	19°966	10°392	55187	9	8°040	13°061	55261	10	8°027	15°571	55335	6	6°778	17°560	55409	6	20°754	19°210
55114	8	20°794	10°220	55188	11	9°316	13°267	55262	9	8°047	15°162	55336	9	8°893	17°907	55410	5	21°583	19°809
55115	21	20°893	10°432	55189	10	10°910	13°074	55263	8	9°320	15°556	55337	14	11°229	17°581	55411	10	22°530	19°198
55116	9	25°301	10°918	55190	19	11°437	13°716	55264	10	10°542	15°437	55338	10	13°594	17°933	55412	13	22°773	19°676
55117	21	25°692	10°003	55191	8	11°539	13°667	55265	19	13°039	15°834	55339	6	14°080	17°558	55413	6	23°167	19°194
55118	20	25°794	10°083	55192	9	12°130	13°071	55266	14	13°177	15°856	55340	9	14°835	17°127	55414*	31	23°218	19°191
55119	9	0°011	11°119	55193	14	12°149	13°820	55267	10	15°645	15°645	55341	11	15°524	17°161	55415	7	24°996	19°018
55120	7	2°240	11°396	55194	19	13°297	13°873	55268	9	16°113	15°259	55342	7	16°112	17°323	55416	7	25°224	19°240
55121	18	2°521	11°006	55195	20	13°624	13°062	55269	8	16°436	15°220	55343	8	17°070	17°094	55417	8	25°797	19°212
55122	8	2°812	11°090	55196	12	14°860	13°863	55270	12	16°702	15°574	55344	6	19°225	17°761	55418	9	0°557	20°312
55123	17	4°011	11°108	55197	15	15°116	13°983	55271	8	17°422	15°137	55345	9	19°242	17°773	55419	7	3°271	20°303
55124	9	4°270	11°881	55198	13	15°993	13°894	55272	19	18°848	15°179	55346	5	19°634	17°388	55420	14	3°334	20°229
55125	12	4°331	11°644	55199	17	16°671	13°212	55273	10	18°876	15°528	55347	12	20°048	17°450	55421	11	3°819	20°450
55126	8	5°934	11°077	55200*	20	16°712	13°821	55274	12	19°920	15°017	55348	12	20°983	17°183	55422	7	5°149	20°489
55127	9	6°717	11°238	55201	12	16°890	13°527	55275	13	20°629	15°231	55349	10	25°502	17°804	55423	10	5°341	20°374
55128	12	8°094	11°435	55202	9	17°016	13°083	55276	17	20°713	15°833	55350	30	2°551	18°586	55424	19	6°019	20°458
55129	9	9°456	11°117	55203	17	17°061	13°590	55277	11	22°371	15°943	55351*	35	2°553	18°576	55425	8	6°479	20°085
55130	10	9°832	11°210	55204	8	17°159	13°753	55278	10	23°437	15°732	55352	12	4°013	18°689	55426	12	7°895	20°369
55131	11	10°878	11°853	55205	8	17°610	13°639	55279	11	23°714	15°516	55353	10	4°071	18°093	55427	16	9°034	20°537
55132	9	10°947	11°390	55206	7	17°643	13°652	55280	7	24°149	15°581	55354	9	4°082	18°088	55428	8	10°126	20°512
55133	18	11°931	11°883	55207	12	17°749	13°010	55281	6	24°285	15°112	55355	7	4°617	18°933	55429	9	10°428	20°063
55134	8	13°274	11°846	55208	6	18°072	13°251	55282	10	24°368	15°187	55356	8	4°738	18°651	55430	12	10°952	20°637
55135	12	13°374	11°899	55209	8	19°337	13°388	55283	9	24°392	15°551	55357	9	7°489	18°016	55431	7	11°261	20°449
55136	11	14°863	11°248	55210	20	21°750	13°805	55284	10	24°437	15°560	55358	9	8°013	18°820	55432	9	11°939	20°018
55137	10	16°059	11°014	55211*	22	22°799	13°788	55285	8	24°606	15°698	55359	10	8°265	18°537	55433	11	12°329	20°852
55138	10	17°352	11°399	55212	17	22°818	13°850	55286	11	25°204	15°654	55360	6	8°293	18°868	55434	8	12°521	20°022
55139	11	17°704	11°690	55213	7	23°571	13°997	55287	8	25°259	15°405	55361	7	8°836	18°601	55435	9	12°598	20°210
55140	8	19°700	11°898	55214	7	23°623	13°539	55288	9	25°593	15°341	55362	9	8°947	18°264	55436	8	12°667	20°796
55141	9	20°093	11°200	55215	14	25°412	13°372	55											

R. A. 18^h 28^m

Plate 1199; 1898 Aug. 11.

Provisional Constants.

A	B	C
-00018	+00953	-3469

D	E	F
-00985	-00022	-6093

Mag. = 15.4 - 1.25 \sqrt{d}

No.	d	x	y
55601	11	0.888	0.601
55602	16	0.947	0.124
55603	9	1.600	0.378
55604	10	5.945	0.249
55605	7	9.959	0.988
55606	12	6.946	0.924
55607	14	7.784	0.861
55608	11	8.255	0.300
55609	7	10.726	0.383
55610	11	10.770	0.407
55611	14	11.797	0.816
55612*	27	12.721	0.319
55613	17	13.579	0.852
55614	8	15.544	0.451
55615	19	15.567	0.658
55616	8	16.912	0.396
55617	19	17.034	0.425
55618	17	17.873	0.906
55619	12	18.187	0.419
55620	12	18.318	0.087
55621	6	18.886	0.816
55622	5	19.517	0.583
55623	13	19.647	0.273
55624	19	19.892	0.432
55625	8	20.071	0.468
55626	19	20.632	0.487
55627	9	20.794	0.971
55628	7	21.791	0.448
55629	12	22.085	0.057
55630	22	24.019	0.632
55631	13	25.145	0.873
55632	10	25.729	0.688
55633	16	1.366	1.613
55634	8	4.995	1.180
55635	8	5.183	1.421
55636	7	6.299	1.194
55637	8	7.028	1.136
55638	6	8.194	1.075
55639	12	8.556	1.072
55640	9	8.803	1.146
55641	13	9.922	1.736
55642	12	10.441	1.564
55643	9	11.530	1.076
55644	15	11.708	1.023
55645	14	12.016	1.914
55646	13	12.917	1.247
55647	12	13.502	1.176
55648*	32	14.496	1.048
55649	6	15.480	1.120
55650	9	15.645	1.674
55651	12	15.900	1.542
55652	7	16.034	1.988
55653	7	16.766	1.522
55654	6	17.328	1.664
55655	10	17.331	1.256
55656	7	17.973	1.444

55449	7	1.512	21.529	55523*	20	20.458	23.752	55657	13	18.442	1.072	55731	16	20.701	3.499
55450*	35	1.573	21.742	55524	11	21.007	23.139	55658	12	18.612	1.574	55732	14	20.739	3.416
55451	8	3.164	21.244	55525	8	21.586	23.796	55659	9	19.444	1.723	55733	8	21.601	3.899
55452	19	3.960	21.389	55526	9	23.388	23.441	55660	5	19.540	1.788	55734	13	21.647	3.551
55453	19	4.284	21.948	55527	7	23.551	23.782	55661	14	21.776	1.485	55735	8	21.711	3.754
55454	8	5.687	21.864	55528	11	24.325	23.763	55662	9	23.121	1.114	55736	9	22.186	3.375
55455	6	6.860	21.941	55529	7	24.597	23.250	55663	7	24.173	1.779	55737	18	22.338	3.337
55456	6	7.529	21.985	55530	7	24.631	23.454	55664	23	24.871	1.762	55738	9	22.631	3.624
55457	9	7.628	21.144	55531	10	24.857	23.281	55665	8	25.087	1.707	55739	12	23.307	3.363
55458	6	8.154	21.582	55532	8	24.859	23.668	55666	12	25.289	1.704	55740	10	24.261	3.994
55459	10	8.501	21.862	55533	11	25.424	23.563	55667	21	0.093	2.975	55741	9	24.812	3.903
55460	10	9.103	21.092	55534	11	0.436	24.478	55668	13	0.782	2.624	55742*	22	0.264	4.253
55461	17	9.677	21.641	55535*	23	6.413	24.813	55669	19	0.815	2.653	55743	14	2.076	4.430
55462	9	9.844	21.783	55536	16	7.959	24.497	55670	12	0.845	2.669	55744	6	3.102	4.054
55463	18	10.832	21.511	55537	6	9.274	24.409	55671	5	2.129	2.961	55745	8	4.975	4.631
55464	7	14.649	21.274	55538*	19	9.804	24.687	55672	20	4.926	2.535	55746	13	5.029	4.217
55465	13	15.688	21.039	55539	11	10.728	24.461	55673	8	5.515	2.977	55747	16	5.060	4.083
55466	12	18.516	21.352	55540	8	10.916	24.568	55674	18	5.617	2.874	55748	8	7.249	4.733
55467	11	18.936	21.547	55541*	39	11.458	24.068	55675	6	5.936	2.751	55749	9	7.873	4.050
55468	10	21.784	21.068	55542	12	12.624	24.139	55676	5	6.256	2.161	55750	12	7.923	4.506
55469	10	21.977	21.027	55543	11	13.124	24.213	55677	6	7.122	2.615	55751	6	8.297	4.197
55470	14	22.028	21.289	55544	23	13.166	24.847	55678	7	7.499	2.798	55752*	25	8.404	4.053
55471	20	22.774	21.727	55545	14	13.342	24.634	55679	7	8.394	2.565	55753	19	9.161	4.522
55472	8	23.206	21.454	55546	8	15.544	24.432	55680	9	12.408	2.003	55754	9	9.301	4.613
55473	21	24.983	21.350	55547	12	16.277	24.568	55681	10	12.565	2.569	55755	12	9.653	4.054
55474	21	25.120	21.253	55548	7	16.289	24.341	55682	8	12.766	2.438	55756	20	9.737	4.328
55475	13	25.702	21.688	55549	17	16.709	24.939	55683	13	13.622	2.866	55757	11	11.524	4.313
55476	14	1.990	22.365	55550	7	16.808	24.123	55684	18	15.156	2.072	55758	9	11.851	4.057
55477	10	2.706	22.522	55551	21	17.013	24.067	55685	6	15.723	2.949	55759	10	13.114	4.974
55478	15	2.936	22.447	55552*	35	17.079	24.088	55686	7	16.949	2.045	55760	8	13.686	4.357
55479	20	3.665	22.616	55553*	23	17.243	24.974	55687	8	17.134	2.366	55761	13	13.699	4.446
55480	6	9.364	22.160	55554	12	17.708	24.399	55688	16	17.403	2.671	55762	8	16.137	4.207
55481	11	9.789	22.562	55555	8	17.754	24.643	55689	13	18.137	2.198	55763	13	16.438	4.103
55482	9	10.202	22.287	55556	10	18.399	24.044	55690	12	21.043	2.263	55764	7	16.506	4.745
55483	7	10.665	22.878	55557*	16	18.748	24.403	55691	9	21.936	2.447	55765	8	18.903	4.189
55484	13	10.900	22.576	55558	7	20.030	24.349	55692	21	22.479	2.045	55766	12	19.256	4.696
55485	16	12.272	22.985	55559	16	20.382	24.923	55693	23	24.633	2.977	55767	7	19.802	4.589
55486	13	12.827	22.547	55560	8	20.783	24.858	55694	22	25.209	2.159	55768	16	20.235	4.298
55487	18	13.904	22.730	55561	12	21.384	24.927	55695	5	1.994	3.298	55769	5	20.738	4.061
55488	10	14.741	22.826	55562	11	23.599	24.947	55696	11	2.852	3.549	55770	7	20.779	4.913
55489	11	15.064	22.620	55563	7	25.032	24.212	55697	13	2.957	3.825	55771	8	21.007	4.686
55490	7	15.600	22.578	55564	9	3.887	25.492	55698	7	3.881	3.731	55772	10	22.225	4.484
55491	9	16.694	22.159	55565	10	5.543	25.771	55699	23	3.911	3.249	55773	13	24.178	4.401
55492	10	18.653	22.108	55566	20	8.060	25.650	55700	20	4.166	3.126	55774	8	24.244	4.204
55493	10	19.957	22.737	55567	8	10.522	25.428	55701	7	4.372	3.814	55775	25	25.132	4.898
55494	11	20.635	22.482	55568	9	11.475	25.531	55702	20	4.543	3.527	55776	9	0.986	5.530
55495	7	20.872	22.083	55569	7	12.664	25.474	55703	5	4.848	3.317	55777	7	1.052	5.520
55496	6	20.873	22.071	55570	6	14.467	25.611	55704	8	4.859	3.919	55778	6	2.205	5.263
55497*	28	21.182	22.516	55571	20	14.522	25.557	55705	9	7.067	3.369	55779	8	2.648	5.410
55498*	23	21.277	22.924	55572	5	15.576	25.869	55706	17	7.134	3.046	55780	6	3.327	5.420
55499*	22	21.422	22.308	55573	12	16.677	25.025	55707	6	7.414	3.407	55781	7	3.788	5.348
55500	21	21.830	22.011	55574*	40	16.735	25.087	55708	14	7.464	3.868	55782	12	4.254	5.254
55501	11	22.427	22.942	55575	6	18.503	25.519	55709	20	7.535	3.405	55783	6	4.380	5.961
55502	20	23.088	22.589	55576	8	18.726	25.618	55710	7	8.730	3.918	55784	13	7.356	5.213
55503	8	23.519	22.451	55577	15	19.366	25.301	55711	8	9.186	3.025	55785	12	7.916	5.289
55504	9	23.936	22.054	55578	7	19.899	25.680	55712	6	9.363	3.943	55786	15	10.247	5.402
55505	9	25.113	22.053	55579	9	21.766	25.943	55713	13	9.893	3.641	55787	8	10.313	5.171
55506	9	25.571	22.741	55580	8	22.869	25.172	55714	7	9.948	3.368	55788	20	11.431	5.811
55507	10	0.340	23.653	55581	8	25.499	25.806	55715	9	11.002	3.836	55789	17	13.802	5.432
55508	23	0.342	23.523					55716	16	12.734	3.823	55790	11	14.551	5.153
55509*	20	0.738	23.969					55717	12	13.674	3.136	55791	5	14.666	5.778
55510	13	3.483	23.108					55718	19	15.016	3.307	55792	15	14.934	5.363
55511	10	3.819	23.643					55719	18	15.037	3.312	55793	15	16.432	5.102
55512	8	5.811	23.283					55720	6	15.136	3.801	55794	11	16.699	5.184
55513	9	6.621	23.394					55721	16	15.246	3.782	55795	6	16.886	5.013
55514	9	7.155	23.645					55722	11	15.650	3.710	55796	11	16.931	5.720
55515	20	10.492	23.708					55723	15	16.359	3.764	55797	6	17.316	5.878
55516	8	10.524	23.594					55724	8	16.800	3.751	55798	14	17.696	5.954
55517	17	12.506	23.917					55725	8	19.586	3.110	55799	7	18.634	5.298
55518	12	14.518	23.135					55726	16	19.605	3.667	55800	5	20.969	5.510
55519	19	16.915	23.776					55727	12	19.826	3.126	55801	8	20.977	5.044
55520*	22	19.204	23.274					55728	13	20.244	3.273	55802	8	23.058	5.610
55521	18	19.865	23.887					55729	18	20.301	3.458	55803	15	23.230	5.055
55522	19	20.046	23.293					55730	14	20.616	3.239	55804	18	23.314	5.127

R. A. 18 ^h 28 ^m			
Plate 1199; 1898 Aug. 11.			
Provisional Constants.			
A	B	C	
-00018	+00953	-3469	
D	E	F	
-00985	-00022	-6093	
Mag. = 15.4 - 1.25 √d			
No.	d	x	y
55601	11	0.888	0.601
55602	16	0.947	0.124
55603	9	1.600	0.378
55604	10	5.945	0.249
55605	7	5.959	0.988
55606	12	6.946	0.924
55607	14	7.784	0.861
55608	11	8.255	0.300
55609	7	10.726	0.383
55610	11	10.770	0.407
55611	14	11.797	0.816
55612*	27	12.721	0.319
55613	17	13.579	0.852
55614	8	15.544	0.451
55615	19	15.567	0.658

55805	6	24°025	5°076	55879	7	23°365	7°286	55953	16	20°878	9°966	56027	13	7°751	12°261	56101*	19	6°020	14°567
55806	12	24°141	5°339	55880	10	23°863	7°754	55954	8	20°888	9°124	56028	8	8°323	12°158	56102	7	6°673	14°083
55807	24	24°674	5°614	55881	6	24°197	7°377	55955	6	21°624	9°406	56029	17	9°377	12°614	56103	7	6°836	14°561
55808	7	1°470	6°815	55882	11	25°303	7°156	55956	14	21°735	9°543	56030	13	9°659	12°126	56104	14	6°946	14°500
55809	11	2°703	6°489	55883	7	25°542	7°753	55957	19	22°045	9°899	56031	12	9°698	12°539	56105*	20	7°419	14°513
55810	8	2°785	6°896	55884*	44	0°891	8°043	55958*	23	23°496	9°572	56032*	32	11°295	12°029	56106	7	9°425	14°071
55811	12	3°699	6°541	55885	21	1°167	8°614	55959	17	24°066	9°897	56033	15	11°540	12°052	56107	11	9°559	14°712
55812	10	3°767	6°234	55886	18	1°324	8°888	55960	7	24°123	9°838	56034	7	11°977	12°459	56108	21	9°906	14°557
55813	9	3°806	6°743	55887	10	2°776	8°017	55961	9	24°524	9°876	56035	7	12°452	12°421	56109	15	10°070	14°386
55814	7	5°114	6°294	55888	13	3°389	8°452	55962	11	25°249	9°343	56036	9	12°616	12°177	56110*	21	10°402	14°604
55815	8	6°089	6°356	55889	12	4°347	8°603	55963	6	2°917	10°646	56037*	41	12°650	12°193	56111	8	11°304	14°797
55816	7	6°517	6°781	55890	20	5°076	8°160	55964	8	2°996	10°471	56038	16	13°233	12°532	56112	17	12°295	14°391
55817	13	6°564	6°982	55891	16	5°254	8°615	55965	12	6°197	10°271	56039	11	16°107	12°603	56113	7	12°733	14°554
55818	18	7°048	6°341	55892	7	5°881	8°529	55966	20	6°240	10°503	56040	11	16°604	12°263	56114	11	13°166	14°548
55819	7	7°218	6°463	55893	9	6°824	8°293	55967	8	7°081	10°437	56041	14	17°082	12°922	56115	19	13°912	14°125
55820	6	7°613	6°391	55894	13	7°216	8°002	55968	7	8°758	10°584	56042*	19	17°246	12°482	56116	6	14°048	14°669
55821	23	8°365	6°640	55895	7	7°320	8°076	55969	16	9°307	10°808	56043	10	17°465	12°967	56117	14	14°375	14°399
55822	11	9°873	6°981	55896	6	7°382	8°466	55970*	23	11°368	10°763	56044	7	18°300	12°722	56118	6	15°097	14°520
55823*	29	10°024	6°566	55897	16	7°567	8°098	55971	21	13°974	10°189	56045	14	18°437	12°567	56119	12	15°289	14°571
55824	8	10°687	6°573	55898	9	7°737	8°055	55972	6	13°979	10°189	56046	9	18°729	12°816	56120	15	16°702	14°631
55825	17	10°722	6°008	55899	6	7°899	8°759	55973	11	15°130	10°602	56047	6	19°658	12°323	56121*	24	18°500	14°170
55826	6	12°210	6°376	55900	7	9°515	8°674	55974	6	18°467	10°144	56048	9	20°100	12°296	56122	15	18°759	14°241
55827	13	13°407	6°713	55901	6	10°302	8°176	55975	21	20°568	10°113	56049	8	20°422	12°998	56123	6	18°845	14°848
55828	8	13°772	6°044	55902	7	12°441	8°632	55976	12	21°196	10°774	56050	7	20°697	12°884	56124	12	19°253	14°947
55829	19	14°014	6°212	55903	6	12°804	8°949	55977	16	22°227	10°608	56051	8	20°731	12°427	56125	9	19°756	14°745
55830	6	14°463	6°913	55904	11	14°956	8°097	55978	10	22°233	10°095	56052	6	24°504	12°602	56126	18	20°201	14°245
55831	16	15°358	6°915	55905	7	15°813	8°286	55979	6	22°507	10°522	56053	6	24°836	12°141	56127	14	20°410	14°053
55832	7	15°850	6°914	55906	5	16°450	8°514	55980	6	23°038	10°343	56054	5	24°963	12°329	56128	13	20°561	14°998
55833	6	17°366	6°533	55907	13	17°988	8°336	55981	5	23°564	10°355	56055*	22	0°579	13°413	56129	12	21°123	14°294
55834	18	17°425	6°633	55908	5	18°425	8°715	55982	7	23°689	10°396	56056*	17	0°598	13°476	56130	7	21°351	14°237
55835	9	17°485	6°932	55909	8	18°483	8°597	55983	14	24°546	10°201	56057	7	1°356	13°600	56131	13	21°854	14°418
55836	6	17°718	6°397	55910	14	18°496	8°513	55984	14	25°335	10°598	56058	11	2°289	13°898	56132	12	21°904	14°045
55837	8	17°974	6°200	55911	12	18°780	8°628	55985*	21	0°216	11°352	56059	11	3°289	13°309	56133	9	22°341	14°490
55838	16	20°556	6°017	55912	11	19°702	8°134	55986	11	1°062	11°064	56060	14	4°295	13°884	56134	6	22°476	14°617
55839	15	0°795	7°816	55913	7	19°799	8°681	55987	9	2°228	11°857	56061	9	5°404	13°175	56135	10	22°820	14°176
55840	5	1°714	7°521	55914	11	20°436	8°552	55988	8	4°462	11°093	56062	11	6°809	13°249	56136	6	23°987	14°846
55841	8	2°038	7°519	55915	9	22°768	8°855	55989	5	5°654	11°707	56063	8	7°326	13°778	56137	17	24°017	14°174
55842	13	2°441	7°169	55916	7	22°911	8°539	55990	7	5°663	11°250	56064	14	7°836	13°678	56138	16	25°351	14°273
55843	9	3°765	7°303	55917	17	23°153	8°502	55991	13	6°907	11°934	56065*	21	7°917	13°793	56139	12	0°214	15°579
55844	11	5°523	7°947	55918	6	24°605	8°769	55992	9	7°380	11°190	56066	16	8°850	13°404	56140	12	0°682	15°639
55845*	23	6°327	7°158	55919	7	25°423	8°664	55993	12	7°887	11°795	56067	13	9°016	13°937	56141	11	1°272	15°337
55846	12	6°844	7°378	55920	20	1°181	9°173	55994	14	8°828	11°293	56068	12	9°623	13°992	56142	13	1°544	15°114
55847	6	7°950	7°748	55921	12	1°331	9°548	55995	8	10°381	11°802	56069	14	9°732	13°313	56143	10	2°221	15°131
55848	21	8°393	7°437	55922	8	2°842	9°184	55996	11	11°666	11°785	56070*	24	9°954	13°175	56144	12	2°269	15°139
55849	17	8°427	7°856	55923	6	2°864	9°393	55997	9	12°164	11°812	56071	19	10°158	13°746	56145	5	2°439	15°270
55850	12	9°765	7°624	55924	17	2°993	9°099	55998	8	12°543	11°116	56072*	31	10°265	13°400	56146	13	3°037	15°209
55851	16	10°623	7°583	55925	19	3°359	9°545	55999	7	13°267	11°479	56073	6	11°534	13°027	56147	12	3°126	15°739
55852	9	10°927	7°216	55926	20	3°451	9°282	56000	6	13°374	11°909	56074*	29	11°982	13°176	56148	5	3°424	15°253
55853	7	11°212	7°518	55927	16	3°466	9°623	56001	8	13°511	11°612	56075	17	13°057	13°126	56149	13	3°835	15°012
55854	19	11°571	7°395	55928	11	3°947	9°042	56002	11	16°126	11°279	56076	10	16°713	13°695	56150	6	4°676	15°804
55855	18	12°315	7°612	55929	13	4°086	9°329	56003	14	16°213	11°647	56077	12	17°432	13°287	56151	7	5°146	15°271
55856	7	12°815	7°302	55930	16	4°699	9°586	56004	5	16°766	11°095	56078	16	18°082	13°419	56152	8	5°288	15°263
55857	7	13°280	7°331	55931	6	5°056	9°094	56005	7	17°375	11°201	56079	13	18°788	13°565	56153	10	5°463	15°212
55858	10	13°730	7°856	55932	5	5°368	9°680	56006	11	17°973	11°760	56080	9	18°867	13°578	56154	11	5°546	15°329
55859*	42	14°592	7°497	55933	8	5°563	9°486	56007	18	18°238	11°867	56081	13	19°204	13°041	56155	6	7°127	15°276
55860	18	15°677	7°695	55934	19	5°574	9°893	56008	11	19°026	11°373	56082	6	19°397	13°527	56156	13	7°446	15°120
55861	7	15°900	7°867	55935	18	6°078	9°234	56009	13	19°832	11°602	56083	6	21°401	13°611	56157*	23	8°459	15°224
55862	6	16°051	7°499	55936	8	7°199	9°873	56010	14	22°568	11°914	56084	11	21°580	13°586	56158	12	9°161	15°095
55863	7	16°604	7°436	55937	7	7°375	9°350	56011	5	22°804	11°906	56085	6	21°659	13°923	56159	18	9°711	15°329
55864	11	17°313	7°824	55938	12	9°331	9°235	56012	9	23°107	11°159	56086	7	21°983	13°866	56160	23	11°415	15°240
55865	12	18°015	7°927	55939	8	9°780	9°895	56013	17	24°098	11°563	56087	18	22°904	13°052	56161	19	11°493	15°867
55866	10	18°532	7°158	55940	6	10°239	9°359	56014	13	24°615	11°192	56088	14	23°661	13°122	56162	14	11°507	15°878
55867	9	19°116	7°959	55941	11	12°093	9°793	56015	7	25°073	11°550	56089	6	23°807	13°303	56163	9	13°172	15°526
55868	7	19°130	7°754																

56175	7	24.728	15.661	56249	13	0.466	18.833	56323	13	16.058	19.721	56397	13	12.763	21.075	56471	12	21.945	23.424
56176	12	1.067	16.553	56250*	33	1.154	18.801	56324	16	16.087	19.604	56398*	22	12.849	21.128	56472	13	23.100	23.515
56177	11	1.143	16.397	56251	8	1.522	18.036	56325	10	17.789	19.295	56399	6	14.718	21.544	56473	13	23.109	23.578
56178	19	1.304	16.482	56252	6	2.481	18.283	56326	13	17.906	19.974	56400	7	15.122	21.351	56474	14	23.327	23.266
56179	9	1.411	16.156	56253	10	2.929	18.581	56327	12	17.943	19.956	56401	14	15.380	21.767	56475	13	24.136	23.167
56180	7	2.194	16.684	56254	12	3.163	18.794	56328	14	18.324	19.090	56402	17	15.909	21.214	56476	8	25.552	23.566
56181	9	2.210	16.337	56255	9	3.735	18.750	56329	6	18.831	19.037	56403	23	16.178	21.697	56477	11	1.704	24.546
56182	12	2.501	16.096	56256	5	6.697	18.586	56330	12	18.991	19.064	56404	13	16.237	21.820	56478	6	4.563	24.568
56183	10	5.820	16.393	56257	13	7.493	18.102	56331	13	20.335	19.068	56405	14	18.527	21.634	56479*	40	6.274	24.206
56184	11	5.884	16.825	56258	14	8.321	18.810	56332	9	21.836	19.719	56406	14	19.675	21.660	56480	7	6.455	24.605
56185	12	6.079	16.334	56259	6	8.567	18.849	56333	8	21.964	19.398	56407	5	20.129	21.181	56481	10	6.671	24.804
56186	11	6.167	16.606	56260	7	8.721	18.084	56334	13	22.473	19.789	56408	7	20.278	21.386	56482	10	6.937	24.976
56187	6	7.119	16.523	56261	16	8.839	18.728	56335	10	22.714	19.420	56409	11	22.185	21.754	56483	17	8.983	24.872
56188	7	7.261	16.393	56262	13	9.218	18.109	56336	20	23.213	19.194	56410	9	22.237	21.215	56484	12	9.213	24.135
56189	9	7.612	16.970	56263	6	10.246	18.032	56337	16	23.241	19.522	56411	11	22.996	21.027	56485	17	9.268	24.127
56190	6	7.753	16.662	56264	7	11.706	18.820	56338*	31	23.385	19.678	56412	22	1.122	22.203	56486	14	9.936	24.794
56191	9	8.072	16.956	56265	8	12.234	18.401	56339	9	23.495	19.155	56413	7	2.915	22.842	56487	6	11.355	24.695
56192	20	8.372	16.917	56266	19	12.825	18.026	56340	18	25.407	19.733	56414	8	3.244	22.143	56488	18	12.591	24.206
56193	7	11.117	16.058	56267	13	13.043	18.173	56341	14	0.023	20.938	56415	9	3.612	22.287	56489	19	13.694	24.161
56194	13	11.506	16.167	56268	12	13.605	18.909	56342	15	2.689	20.333	56416	14	4.273	22.580	56490	12	13.811	24.200
56195	21	12.597	16.289	56269	16	13.781	18.520	56343	7	2.981	20.909	56417	8	4.484	22.033	56491	14	13.907	24.417
56196	6	12.773	16.839	56270*	21	14.993	18.303	56344	21	3.115	20.806	56418*	31	5.224	22.832	56492	13	14.037	24.975
56197	8	13.122	16.316	56271	12	15.284	18.366	56345	13	3.755	20.164	56419	13	6.425	22.004	56493	18	14.745	24.395
56198*	20	13.225	16.147	56272	13	16.516	18.023	56346	16	4.556	20.227	56420	5	6.556	22.333	56494	5	16.201	24.250
56199	13	13.842	16.818	56273	11	16.740	18.174	56347	13	4.775	20.507	56421	9	6.607	22.223	56495	7	16.613	24.928
56200	13	14.926	16.597	56274	13	18.205	18.689	56348	6	4.839	20.761	56422	19	7.848	22.904	56496	9	16.825	24.594
56201	18	16.132	16.073	56275	10	18.523	18.664	56349	9	5.696	20.457	56423	16	9.115	22.673	56497	18	17.600	24.023
56202	14	16.804	16.806	56276	6	19.220	18.216	56350*	31	6.125	20.753	56424	17	11.212	22.916	56498	6	17.876	24.841
56203	8	17.083	16.656	56277	9	19.468	18.424	56351	11	6.194	20.385	56425	12	11.806	22.693	56499*	21	17.943	24.387
56204	14	17.091	16.957	56278	10	19.604	18.284	56352	10	6.203	20.585	56426	14	11.940	22.347	56500	12	18.148	24.998
56205	9	18.184	16.027	56279	6	20.409	18.358	56353	18	6.907	20.490	56427	15	12.211	22.015	56501	13	18.731	24.123
56206	8	18.213	16.426	56280	14	21.839	18.206	56354*	31	7.203	20.700	56428	13	12.756	22.057	56502	10	18.760	24.362
56207	17	18.732	16.255	56281	18	22.319	18.714	56355	9	7.575	20.668	56429	5	16.415	22.283	56503	14	19.144	24.517
56208	8	18.733	16.872	56282	14	22.319	18.817	56356	8	7.593	20.360	56430	13	16.656	22.302	56504	12	19.559	24.015
56209	8	19.360	16.056	56283	16	23.590	18.164	56357	12	8.184	20.462	56431	7	16.675	22.779	56505	10	19.912	24.838
56210	11	19.763	16.114	56284	13	0.723	19.303	56358	10	8.811	20.098	56432	10	18.038	22.532	56506	8	20.289	24.334
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56212	7	21.309	16.894	56286	12	3.926	19.824	56360	7	9.145	20.515	56434	5	18.649	22.863	56508	11	23.947	24.273
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56214	9	23.023	16.324	56288	12	4.772	19.732	56362	10	12.876	20.062	56436	7	21.461	22.024	56510	6	25.339	24.695
56215	7	23.240	16.564	56289	8	4.984	19.599	56363	12	13.147	20.716	56437	21	22.317	22.091	56511	11	1.680	25.972
56216	13	23.472	16.841	56290	15	5.477	19.688	56364	6	13.646	20.598	56438*	24	23.291	22.176	56512	9	2.984	25.924
56217	21	23.504	16.622	56291	6	5.742	19.497	56365*	21	14.050	20.220	56439	16	24.206	22.740	56513	8	3.070	25.599
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56220	14	4.173	17.333	56294	13	6.036	19.602	56368	9	15.784	20.328	56442	7	3.489	23.113	56516	6	4.860	25.638
56221*	21	4.624	17.355	56295	14	6.108	19.359	56369	6	17.231	20.186	56443	13	4.715	23.313	56517	13	6.778	25.034
56222	11	6.216	17.643	56296	6	6.187	19.653	56370	7	17.334	20.524	56444	7	5.643	23.495	56518	10	6.964	25.030
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56225	16	10.477	17.917	56299	6	7.983	19.394	56373	11	20.210	20.841	56447	7	8.844	23.094	56521	6	11.408	25.658
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56228	13	11.218	17.457	56302	7	8.596	19.783	56376	7	22.813	20.964	56450	18	11.104	23.503	56524	8	15.524	25.710
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56231	15	12.721	17.273	56305	7	8.757	19.020	56379	7	25.183	20.003	56453	7	12.912	23.033	56527	10	18.177	25.185
56232	7	13.383	17.742	56306	14	9.311	19.049	56380	17	25.378	20.652	56454*	26	14.600	23.483	56528	6	18.306	25.657
56233	14	13.504	17.109	56307	13	9.370	19.284	56381	21	0.784	21.352	56455	14	15.013	23.931	56529	7	18.379	25.171
56234*	39	14.245	17.227	56308	5	9.413	19.509	56382	8	1.205	21.068	56456	9	15.124	23.400	56530	9	19.263	25.056
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56236	19	15.967	17.064	56310	13	10.462	19.076	56384	6	3.297	21.407	56458	12	17.331	23.317	56532	14	23.614	25.065
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56970*	48	15 312	9 539	57044*	23	7 289	11 404	57118	10	7 881	13 996	57192	11	21 308	14 781	57266*	33	20 431	16 586
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56978	8	21 122	9 403	57052*	35	12 153	11 761	57126	21	10 774	13 830	57200	9	24 899	15 523	57274	6	1 073	17 486
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56989	23	0 414	10 452	57063*	25	24 241	11 857	57137	6	17 917	13 533	57211	6	7 823	15 426	57285	6	7 588	17 807
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56991	8	1 402	10 894	57065	7	24 692	11 357	57139	8	20 161	13 638	57213	10	8 233	15 370	57287	7	8 544	17 756
56992*	32	1 867	10 126	57066	10	24 700	11 313	57140	7	20 355	13 382	57214	12	8 295	15 262	57288	6	9 324	17 832
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57003	6	8 101	10 483	57077	20	5 922	12 011	57151	11	0 274	14 598	57225	9	14 804	15 211	57299	13	12 821	17 459
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57005	6	9 927	10 408	57079	16	6 416	12 620	57153	8	1 190	14 730	57227	7	20 864	15 563	57301	25	13 018	17 812
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57007	8	10 862	10 322	57081	8	7 211	12 514	57155	8	2 838	14 088	57229	11	22 231	15 460	57303	16	13 573	17 928
57008	12	11 441	10 800	57082	10	11 002	12 058	57156	6	2 853	14 847	57230	9	22 340	15 382	57304	8	14 043	17 510
57009	21	11 458	10 243	57083	6	12 735	12 627	57157	13	3 233	14 334	57231	8	22 662	15 937	57305*	19	14 814	17 037
57010	16	12 178	10 095	57084	10	13 033	12 077	57158	17	3 722	14 823	57232	7	23 021	15 231	57306	9	15 110	17 107
57011	12	12 521	10 864	57085	7	13 186	12 364	57159	7	5 587	14 482	57233	8	23 279	15 432	57307	6	15 333	17 528
57012	12	12 967	10 949	57086	7	13 752	12 589	57160	5	6 656	14 516	57234	15	25 018	15 531	57308	10	16 089	17 976
57013	16	13 598	10 337	57087	10	14 590	12 485	57161	20	7 679	14 283	57235	24	0 572	16 358	57309	7	17 415	17 312
57014	17	13 981	10 791	57088	11	14 890	12 692	57162*	45	8 400	14 898	57236	26	1 083	16 480	57310	6	17 791	17 020
57015	11	14 157	10 441	57089	15	15 856	12 581	57163	8	9 089	14 889	57237*	47						

57323	10	22°203	17°222	57397	7	19°142	19°466	57471	10	22°971	20°902	57545	7	15°657	22°119	57619	7	4°119	24°201
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57338	13	6°474	18°936	57412	13	25°468	19°777	57486	12	7°833	21°460	57560	9	20°635	22°165	57634	12	12°566	24°722
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57349*	28	12°346	18°708	57423	6	5°208	20°146	57497	10	15°288	21°923	57571	12	2°511	23°722	57645	6	15°979	24°560
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				57756*	19	16°906	1°352	57830	8	8°181	4°221	57904	8	4°986	6°992	57978	8	18°761	8°550
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				57760	15	23°567	1°444	57834	14	10°220	4°472	57908	21	8°827	6°964	57982	13	20°511	8°966
				57761	8	25°572	1°464	57835	8	10°270	4°002	57909	7	9°529	6°247	57983	9	20°705	8°116
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				57763	6	5°643	2°173	57837	17	11°651	4°311	57911*	30	10°723	6°584	57985	8	22°035	8°164
				57764	7	5°791	2°066	57838	19	12°140	4°089	57912	18	11°785	6°725	57986	7	22°399	8°775
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				57768	7	7°787	2°046	57842	12	13°974	4°082	57916	6	14°944	6°323	57990	14	24°428	8°225
				57769	15	7°825	2°024	57843	8	14°155	4°314	57917	13	16°665	6°848	57991	9	25°155	8°385
				57770	15	7°944	2°962	57844	13	15°703	4°718	57918	11	16°900	6°534	57992	15	1°874	9°044
				57771	7	8°180	2°732	57845	12	19°922	4°143	57919	13	17°663	6°622	57993	11	2°515	9°027
				57772	9	10°078	2°911	57846	9	20°337	4°095	57920	15	18°929	6°483	57994	15	3°187	9°575
				57773	9	10°895	2°124	57847	11	20°363	4°793	57921	6	19°498	6°750	57995	13	3°306	9°365
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				57776	14	12°667	2°470	57850	12	23°014	4°387	57924	5	21°036	6°074	57998	16	4°096	9°399
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				57778	8	13°697	2°857	57852	8	23°499	4°231	57926	6	23°743	6°227	58000	8	5°539	9°340
				57779	7	14°880	2°677	57853*	30	23°741	4°948	57927	9	24°021	6°494	58001	11	5°897	9°619
				57780	6	15°143	2°250	57854	15	25°084	4°707	57928	17	24°544	6°773	58002	12	6°849	9°050
				57781	15	15°565	2°385	57855	13	0°475	5°306	57929	18	25°522	6°192	58003	10	7°798	9°610
				57782	8	17°596	2°179	57856	20	0°614	5°223	57930	21	25°525	6°541	58004	14	8°879	9°714
				57783	13	19°016	2°829	57857	15	0°739	5°310	57931	20	25°957	6°932	58005	17	8°944	9°817
				57784	14	19°054	2°098	57858	7	1°586	5°701	57932*	22	0°602	7°369	58006	8	9°079	9°113
				57785	13	19°288	2°439	57859	10	2°038	5°382	57933	13	1°143	7°877	58007*	20	9°832	9°073
				57786	12	20°439	2°673	57860	7	2°225	5°393	57934	17	2°162	7°046	58008	14	9°875	9°806
				57787	7	21°320	2°927	57861	13	2°671	5°607	57935*	23	3°213	7°464	58009	13	11°856	9°824
				57788	8	23°124	2°813	57862	5	3°196	5°334	57936	5	3°839	7°937	58010	12	12°182	9°576
				57789	14	23°727	2°929	57863	19	3°666	5°183	57937	10	4°902	7°863	58011	7	13°908	9°064
				57790*	23	24°386	2°804	57864	16	3°922	5°979	57938	9	5°147	7°474	58012	6	16°497	9°599
				57791	8	24°402	2°933	57865	12	3°963	5°156	57939	14	5°316	7°597	58013	12	16°927	9°255
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				57793	21	0°149	3°657	57867	8	4°162	5°912	57941	13	6°251	7°591	58015	13	17°363	9°989
				57794	11	1°898	3°005	57868	7	6°172	5°971	57942	16	6°832	7°526	58016	11	18°655	9°057
				57795*	22	2°218	3°527	57869	9	6°329	5°330	57943	8	9°621	7°705	58017	16	18°738	9°895
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				57797	19	3°559	3°002	57871	15	8°274	5°363	57945	15	10°906	7°247	58019	13	20°578	9°559
				57798	8	8°933	3°871	57872	18	8°668	5°321	57946	8	11°512	7°051	58020	5	21°252	9°598
				57799	9	9°106	3°841	57873	9	8°870	5°506	57947	13	12°123	7°347	58021	8	22°511	9°184
				57800*	23	9°273	3°526	57874	8	10°447	5°833	57948	8	14°067	7°036	58022	13	23°426	9°938
				57801*	18	9°763	3°634	57875	13	11°627	5°023	57949	6	16°487	7°952	58023	7	25°209	9°702
				57802*	16	9°791	3°833	57876	18	11°918	5°044	57950	10	18°972	7°999	58024	16	25°504	9°766
				57803*	29	10°194	3°489	57877	12	13°664	5°191	57951*	31	20°211	7°410	58025	6	2°133	10°544
				57804	7	10°436	3°772	57878	10	16°479	5°825	57952	6	20°507	7°540	58026	8	2°873	10°668
				57805	8	10°504	3°167	57879	14	17°264	5°387	57953	13	20°573	7°277	58027	7	3°650	10°702
				57806*	24	11°850	3°169	57880	9	17°401	5°206	57954	10	21°435	7°185	58028	14	4°389	10°517
				57807	13	12°373	3°216	57881	7	17°425	5°093	57955	10	21°575	7°283	58029	15	4°444	10°105
				57808	6	12°374	3°241	57882	8	17°867	5°513	57956	13	23°034	7°941	58030	18	5°243	10°930
				57809	7	13°189	3°674	57883	7	18°205	5°337	57957	14	23°195	7°425	58031	8	5°467	10°612
				57810	7	14°685	3°479	57884	13	19°501	5°794	57958	22	25°093	7°113	58032	14	5°700	10°294
				57811	13	15°205	3°976	57885	7	20°118	5°449	57959	17	25°106	7°324	58033	13	5°779	10°633
				57812	15	15°971	3°084	57886	13	22°682	5°289	57960	16	1°930	8°953	58034	10	7°493	10°673
				57813	6	16°790	3°179	57887	19	22°913	5°444	57961	7	2°307	8°492	58035	13	8°295	10°866
				57814	10	17°007	3°589	57888	16	23°339	5°470	57962	13	2°904	8°940	58036	7	9°312	10°401
				57815	8	17°525	3°823	57889	7	23°794	5°498	57963	6	3°309	8°085	58037	13	14°001	10°747
				57816	5	18°512	3°192	57890	15	24°269	5°720	57964	8	3°544	8°267	58038	15	16°133	10°882
				57817	5	19°149	3°046	57891	6	24°916	5°154	57965	7	3°935	8°345	58039	17	16°6	

58043	7	20°05	10°313	58117	8	3°183	13°522	58191	17	14°382	15°849	58265	15	15°964	17°335	58339	8	12°691	19°624
58044	7	21°093	10°041	58118	6	3°974	13°623	58192	13	15°460	15°362	58266*	25	16°714	17°690	58340	7	12°786	19°273
58045	5	21°486	10°632	58119	7	4°257	13°795	58193	15	18°173	15°970	58267	6	18°086	17°326	58341	18	12°844	19°466
58046	16	21°643	10°847	58120	14	5°639	13°581	58194	16	18°481	15°713	58268	15	18°190	17°703	58342	19	13°360	19°279
58047	7	22°090	10°164	58121	7	5°832	13°576	58195	12	18°588	15°909	58269	6	18°259	17°524	58343*	22	13°601	19°689
58048	5	23°338	10°155	58122	6	6°196	13°927	58196	20	19°149	15°273	58270	6	18°413	17°187	58344	11	13°614	19°694
58049	12	23°532	10°546	58123	7	6°350	13°166	58197	15	19°311	15°691	58271	5	18°844	17°273	58345	16	14°032	19°635
58050	6	23°704	10°837	58124	8	8°571	13°435	58198	13	20°400	15°107	58272	8	20°356	17°925	58346	12	14°936	19°674
58051	16	24°957	10°353	58125	7	9°048	13°053	58199	12	20°743	15°559	58273	12	20°646	17°866	58347	12	15°722	19°999
58052	9	0°612	11°676	58126	11	9°826	13°178	58200	7	21°286	15°876	58274	7	21°708	17°622	58348	6	15°911	19°624
58053	7	1°174	11°005	58127	8	9°975	13°304	58201	13	22°279	15°825	58275	15	22°658	17°545	58349	7	17°070	19°060
58054	18	1°682	11°391	58128	13	10°143	13°936	58202	12	22°301	15°676	58276	10	23°052	17°904	58350	8	17°072	19°973
58055*	19	2°423	11°218	58129	7	10°704	13°602	58203	13	22°740	15°500	58277	13	23°784	17°678	58351	8	17°480	19°195
58056	18	3°424	11°173	58130	11	11°843	13°890	58204	7	22°894	15°780	58278	6	24°113	17°208	58352	6	17°886	19°953
58057*	8	4°172	11°201	58131	11	12°536	13°589	58205	9	22°945	15°297	58279	12	24°336	17°750	58353	9	17°997	19°664
58058	19	4°332	11°199	58132	12	13°375	13°846	58206	9	23°141	15°220	58280	19	1°412	18°631	58354	20	18°768	19°840
58059	5	5°391	11°216	58133	21	13°563	13°245	58207	8	23°341	15°946	58281	18	1°546	18°640	58355	8	18°841	19°487
58060	6	5°564	11°932	58134	7	14°412	13°561	58208	19	23°482	15°536	58282*	22	2°135	18°387	58356	19	18°865	19°486
58061	16	5°756	11°844	58135	5	15°256	13°387	58209	7	0°153	16°837	58283	15	2°877	18°742	58357	8	19°537	19°317
58062	18	5°778	11°157	58136	5	16°159	13°011	58210	8	0°492	16°626	58284	8	3°495	18°677	58358	13	19°799	19°111
58063*	22	6°362	11°299	58137	19	16°904	13°909	58211	15	1°519	16°616	58285	13	3°562	18°656	58359	6	20°825	19°943
58064	7	7°259	11°443	58138	12	17°235	13°292	58212	17	1°565	16°927	58286	6	3°744	18°978	58360	7	20°836	19°558
58065*	20	9°401	11°820	58139	9	18°834	13°139	58213	13	1°743	16°571	58287	8	4°141	18°902	58361	18	22°468	19°241
58066*	25	9°854	11°473	58140	10	21°105	13°071	58214	12	1°806	16°584	58288	6	4°833	18°030	58362	7	22°715	19°130
58067*	19	10°732	11°489	58141	6	21°344	13°354	58215	8	2°938	16°299	58289	12	5°114	18°408	58363	13	23°496	19°420
58068	13	13°589	11°193	58142	8	21°867	13°454	58216	12	2°976	16°183	58290	10	7°727	18°640	58364	6	24°345	19°299
58069	14	13°746	11°355	58143	12	22°586	13°593	58217	13	3°372	16°862	58291	11	7°845	18°769	58365	8	25°639	19°684
58070	13	13°782	11°122	58144	16	22°659	13°622	58218	11	3°567	16°858	58292	11	9°466	18°394	58366	7	0°086	20°256
58071*	53	15°917	11°362	58145	11	22°847	13°944	58219	8	4°309	16°595	58293	14	11°267	18°426	58367	7	1°337	20°295
58072	7	16°683	11°953	58146	10	0°392	14°564	58220	17	4°924	16°693	58294	11	11°473	18°224	58368	18	1°527	20°989
58073*	18	19°126	11°147	58147	10	0°483	14°864	58221	7	5°607	16°681	58295	13	11°518	18°940	58369	16	3°213	20°243
58074	11	19°337	11°252	58148	17	1°134	14°233	58222	13	5°664	16°780	58296	10	11°531	18°526	58370	6	3°347	20°342
58075	8	19°535	11°004	58149	8	1°161	14°197	58223	14	5°994	16°879	58297	12	11°590	18°421	58371	14	3°358	20°653
58076	11	20°368	11°706	58150	6	1°268	14°619	58224	6	7°256	16°769	58298	9	12°476	18°455	58372	7	4°453	20°467
58077	7	21°028	11°459	58151	14	3°273	14°882	58225	7	8°039	16°763	58299	7	12°704	18°973	58373	19	4°531	20°406
58078	11	21°591	11°690	58152	12	5°966	14°771	58226	8	8°443	16°941	58300	7	15°777	18°498	58374	13	4°985	20°243
58079	6	22°306	11°042	58153	8	6°559	14°923	58227	6	9°603	16°413	58301	7	17°227	18°160	58375	11	5°251	20°884
58080	8	22°847	11°051	58154	14	7°973	14°910	58228	7	10°072	16°980	58302	8	17°616	18°506	58376	11	5°685	20°125
58081	7	23°248	11°970	58155	8	8°712	14°281	58229	7	10°426	16°162	58303	7	17°665	18°459	58377*	13	6°198	20°176
58082*	24	24°721	11°657	58156	13	8°819	14°523	58230	6	10°455	16°227	58304	14	17°956	18°502	58378	8	6°315	20°735
58083	6	24°867	11°769	58157	6	8°842	14°408	58231	13	11°463	16°539	58305	8	17°964	18°548	58379	7	7°144	20°427
58084	7	25°485	11°185	58158	10	10°057	14°334	58232	19	13°350	16°181	58306	7	18°278	18°126	58380	8	7°206	20°461
58085	10	25°684	11°423	58159	12	10°899	14°529	58233	6	13°725	16°244	58307	12	19°073	18°874	58381	15	7°462	20°271
58086*	23	0°429	12°766	58160	11	12°323	14°171	58234	11	15°127	16°569	58308	10	19°177	18°005	58382	8	7°584	20°873
58087	12	1°936	12°533	58161	13	15°649	14°257	58235	13	15°578	16°137	58309	7	19°914	18°301	58383	14	7°892	20°119
58088	11	3°978	12°423	58162	9	17°654	14°372	58236	7	15°591	16°652	58310	14	20°719	18°609	58384	13	8°134	20°174
58089	7	4°577	12°926	58163	8	19°062	14°729	58237	9	17°269	16°593	58311	9	20°837	18°158	58385	11	8°142	20°036
58090	10	4°581	12°409	58164	8	21°408	14°160	58238	14	17°670	16°635	58312	14	21°083	18°308	58386	7	8°335	20°419
58091	13	5°312	12°978	58165	5	21°753	14°224	58239	7	18°642	16°497	58313	9	22°602	18°220	58387	8	9°498	20°695
58092	8	5°976	12°635	58166	16	22°576	14°432	58240	15	21°137	16°903	58314	19	0°537	19°978	58388	9	9°597	20°784
58093	7	6°664	12°684	58167*	19	22°643	14°686	58241	12	21°253	16°465	58315	9	0°878	19°806	58389	12	9°684	20°574
58094	8	7°248	12°688	58168	6	23°540	14°450	58242	13	21°511	16°387	58316	16	3°055	19°834	58390	16	9°781	20°430
58095	6	8°527	12°157	58169	9	24°209	14°618	58243	7	22°840	16°004	58317	7	3°284	19°471	58391	7	10°029	20°895
58096	16	8°640	12°265	58170	7	24°705	14°864	58244	7	23°360	16°380	58318	22	3°677	19°903	58392	8	10°190	20°078
58097	8	8°925	12°185	58171	8	25°216	14°381	58245	8	24°670	16°154	58319	13	3°810	19°115	58393	13	10°514	20°742
58098	15	10°801	12°949	58172	5	25°685	14°832	58246	14	0°685	17°189	58320	8	4°322	19°612	58394	9	11°310	20°914
58099	9	10°931	12°832	58173	6	0°925	15°331	58247	7	3°214	17°975	58321	12	4°525	19°040	58395	6	11°837	20°896
58100	11	11°738	12°421	58174	20	2°233	15°770	58248	13	3°726	17°510	58322*	22	4°637	19°843	58396	8	13°801	20°505
58101*	15	14°878	12°010	58175	7	2°302	15°703	58249	12	4°502	17°151	58323	8	4°720	19°649	58397	6	13°809	20°901
58102	7	15°355	12°184	58176	7	5°373	15°655	58250	8	4°720	17°103	58324	10	5°218	19°578	58398	7	16°101	20°952
58103*	22	15°410	12°300	58177	8	6°468	15°047	58251	5	5°363	17°961	58325	6	5°285	19°073	58399	12	16°353	20°562
58104	6	15°467	12°543	58178	7	6°847	15°640	58252*	18	5°531	17°001	58326	13	5°300	19°008	58400	16	17°317	20°633
58105*	16	16°307	12°216	58179	9	7°219	15°253	58253	6	6°168	17°290	5							

58413	21	1'764	21'207	58487	15	2'977	23'055	58561	13	5'985	25'190	58632	11	14'710	1'629	58706	17	12'780	6'818
58414	7	2'367	21'136	58488	24	4'825	23'817	58562	12	7'392	25'616	58633	14	15'336	1'712	58707	20	14'085	6'242
58415	6	4'295	21'418	58489	8	4'848	23'435	58563	13	7'780	25'671	58634	10	18'634	1'936	58708	14	16'226	6'532
58416	8	4'713	21'614	58490	7	6'537	23'151	58564	8	9'097	25'704	58635	11	23'973	1'621	58709	20	25'266	6'544
58417	9	4'956	21'269	58491	11	7'256	23'344	58565	13	9'233	25'271	58636	11	23'988	1'649	58710	12	25'860	6'734
58418	6	5'106	21'920	58492	13	7'500	23'568	58566	15	9'450	25'636	58637	14	24'656	1'450	58711	18	3'066	7'404
58419	8	5'985	21'915	58493	7	7'756	23'097	58567	15	9'733	25'243	58638	20	1'986	2'092	58712	25	3'620	7'730
58420	8	7'796	21'701	58494	18	8'951	23'733	58568	17	9'851	25'481	58639*	46	5'739	2'655	58713	22	3'640	7'941
58421	12	7'919	21'788	58495	11	9'284	23'676	58569	6	12'676	25'311	58640	17	8'794	2'699	58714	25	4'044	7'150
58422	7	8'473	21'059	58496	7	9'716	23'453	58570	8	13'666	25'509	58641	10	10'267	2'549	58715	22	4'484	7'532
58423	12	8'546	21'518	58497*	19	9'899	23'501	58571	7	14'358	25'120	58642	22	13'161	2'970	58716	20	4'653	7'080
58424	10	8'887	21'278	58498	13	10'004	23'519	58572	20	16'393	25'560	58643	20	16'351	2'204	58717	13	6'655	7'217
58425	14	9'591	21'614	58499	6	10'301	23'442	58573	11	18'418	25'645	58644*	30	19'970	2'070	58718	14	8'956	7'962
58426	12	9'867	21'426	58500*	19	10'482	23'743	58574	13	19'163	25'423	58645	15	2'171	3'574	58719	17	9'800	7'496
58427	20	9'912	21'600	58501	7	12'957	23'826	58575	14	19'214	25'603	58646*	50	2'831	3'437	58720*	27	11'046	7'776
58428	9	9'978	21'670	58502*	23	13'536	23'395	58576	14	19'365	25'964	58647	22	2'973	3'321	58721	10	11'210	7'817
58429	12	10'272	21'257	58503	6	13'625	23'660	58577	6	19'382	25'809	58648	30	4'954	3'100	58722	19	11'979	7'765
58430	5	10'363	21'674	58504	7	13'818	23'959	58578	18	21'716	25'213	58649	14	4'960	3'599	58723	20	14'760	7'953
58431	6	10'844	21'515	58505	13	13'884	23'622	58579	20	23'900	25'431	58650	14	6'088	3'094	58724*	50	18'847	7'595
58432	12	10'987	21'086	58506	11	14'098	23'418	58580	25	24'265	25'550	58651	17	8'586	3'378	58725	21	22'261	7'162
58433	9	11'552	21'453	58507	7	14'190	23'714					58652	11	10'679	3'568	58726	10	22'791	7'921
58434	13	13'230	21'369	58508	16	14'877	23'356					58653	14	10'820	3'504	58727	10	23'490	7'047
58435	17	13'544	21'923	58509	6	15'346	23'126					58654	19	10'950	3'030	58728	17	24'230	7'470
58436	11	13'663	21'440	58510	10	15'617	23'040					58655	12	12'486	3'449	58729	21	24'668	7'250
58437	12	14'571	21'973	58511	11	16'001	23'956					58656	14	14'537	3'564	58730	13	1'580	8'598
58438	9	15'816	21'754	58512	11	16'006	23'332					58657	14	14'871	3'006	58731	12	1'729	8'080
58439	19	15'844	21'235	58513	6	16'385	23'499					58658	15	14'910	3'260	58732	14	2'980	8'854
58440	7	16'013	21'937	58514	16	16'639	23'188					58659	11	15'158	3'802	58733	11	4'676	8'393
58441	14	16'279	21'073	58515	19	17'586	23'064					58660	14	15'662	3'740	58734	16	5'478	8'155
58442	7	16'651	21'982	58516	8	18'943	23'113					58661	11	16'378	3'584	58735	12	7'081	8'480
58443	12	16'694	21'695	58517	6	19'292	23'457					58662	14	17'022	3'950	58736	21	8'255	8'550
58444	7	17'013	21'650	58518	10	19'621	23'776					58663	19	17'061	3'641	58737	10	9'314	8'945
58445	11	17'710	21'024	58519*	23	20'726	23'199					58664	14	20'959	3'842	58738	16	12'603	8'850
58446	8	17'965	21'751	58520	19	22'199	23'170					58665	15	22'074	3'446	58739	14	12'770	8'684
58447	7	18'915	21'104	58521	12	22'471	23'822					58666	10	23'177	3'618	58740*	30	16'976	8'312
58448	7	19'215	21'665	58522	10	22'898	23'603					58667	30	25'465	3'936	58741	21	19'450	8'537
58449	13	19'916	21'923	58523*	45	24'142	23'064					58668	17	0'669	4'620	58742	20	19'834	8'573
58450	16	19'934	21'818	58524*	19	24'937	23'078					58669	13	2'407	4'536	58743	14	21'926	8'167
58451	5	20'621	21'222	58525	15	2'463	24'874					58670	15	5'246	4'903	58744	22	22'214	8'058
58452	12	21'584	21'790	58526	5	5'398	24'225					58671	20	6'494	4'420	58745*	30	22'230	8'307
58453	14	22'193	21'782	58527	6	6'027	24'394					58672	14	7'490	4'156	58746	15	23'824	8'867
58454	15	22'374	21'067	58528	11	6'177	24'675					58673	10	7'750	4'949	58747	11	25'450	8'598
58455	11	23'606	21'666	58529	14	6'214	24'925					58674*	33	14'082	4'643	58748	13	4'573	9'736
58456	8	24'172	21'729	58530	15	6'813	24'888					58675	21	14'394	4'361	58749*	28	6'064	9'057
58457	12	24'439	21'705	58531	10	7'076	24'996					58676*	38	15'154	4'704	58750	13	6'488	9'720
58458	7	25'398	21'193	58532	10	7'428	24'206					58677	18	17'255	4'955	58751	11	6'657	9'717
58459	17	0'641	22'217	58533	22	8'285	24'958					58678	16	17'386	4'280	58752	21	10'269	9'777
58460*	20	2'329	22'247	58534	7	8'692	24'834					58679	21	19'297	4'817	58753	23	12'755	9'039
58461	11	3'807	22'456	58535	13	8'876	24'245					58680	13	20'280	4'097	58754	15	15'837	9'871
58462	9	3'957	22'895	58536	15	9'832	24'403					58681	11	24'250	4'741	58755	12	19'826	9'407
58463	6	5'989	22'250	58537	8	10'297	24'064					58682	21	1'175	5'955	58756	13	22'066	9'770
58464	12	6'846	22'665	58538	10	11'999	24'363					58683*	58	2'229	5'593	58757	18	3'550	10'972
58465	7	7'293	22'809	58539	13	13'322	24'584					58684	18	3'564	5'328	58758	14	4'088	10'376
58466	16	7'584	22'502	58540	13	13'450	24'998					58685	10	4'836	5'915	58759	11	5'030	10'500
58467	10	8'386	22'555	58541	5	15'219	24'566					58686	18	4'904	5'902	58760	12	5'204	10'959
58468	9	9'587	22'616	58542	9	15'401	24'133					58687	20	6'279	5'373	58761	14	7'266	10'738
58469	10	12'179	22'982	58543	17	15'534	24'944					58688	22	7'784	5'328	58762	17	8'336	10'274
58470	10	12'567	22'888	58544*	17	16'774	24'391					58689	23	8'229	5'128	58763	14	9'868	10'180
58471	14	14'398	22'137	58545	11	18'610	24'467					58690	30	9'136	5'010	58764*	22	10'250	10'612
58472	9	14'839	22'957	58546	9	19'228	24'276					58691	20	17'879	5'976	58765	16	12'152	10'094
58473	9	14'894	22'123	58547*	20	19'373	24'737					58692	13	24'746	5'809	58766	27	13'564	10'280
58474	13	15'023	22'697	58548	16	19'374	24'328					58693	38	1'410	6'107	58767	22	15'844	10'262
58475	12	15'329	22'159	58549	19	20'404	24'640					58694	22	1'835	6'121	58768	15	20'827	10'747
58476	13	15'571	22'116	58550	7	21'728	24'630					58695	18	2'770	6'356	58769	19	23'280	10'706
58477	7	18'009	22'633	58551	9	22'341	24'472					58696	19	4'033	6'800	58770	18	24'981	10'828
58478	12	18'308	22'286	58552	7	23'868	24'855					58697	28	4'314	6'344	58771	28	0'246	11'531
58479	15	18'985	22'184	58553	19	0'825	25'855					58698	14	4'320	6'536	58772	12	6'636	11'059
58480	8	19'549	22'315	58554	30	2'600	25'760					58699	10	4'660	6'108	58773	15	9'995	11'062
58481	9	20'743	22'48																

58780	10	4°300	12°027	58854	27	16°297	16°163	58928	12	5°561	21°477	59002	12	11°755	25°755	59134	13	24°855	2°414
58781	16	4°882	12°275	58855	19	17°278	16°481	58929	13	5°966	21°338	59003	9	13°320	25°015	59135*	30	25°378	2°420
58782	10	7°416	12°040	58856	17	18°110	16°918	58930*	31	6°090	21°931	59004	20	13°644	25°967	59136	10	0°279	3°165
58783	18	8°926	12°763	58857*	37	20°392	16°688	58931	21	6°260	21°153	59005	14	14°514	25°902	59137	9	1°384	3°325
58784*	31	17°799	12°470	58858	11	23°442	16°922	58932	10	6°733	21°834	59006	30	14°686	25°779	59138	23	3°677	3°615
58785	18	19°291	12°630	58859	22	24°808	16°827	58933	13	6°851	21°462	59007	11	15°149	25°503	59139	10	6°390	3°727
58786*	32	21°764	12°981	58860	10	24°820	16°174	58934	14	8°944	21°559	59008	13	16°837	25°055	59140	11	8°191	3°349
58787	11	23°950	12°376	58861	16	25°202	16°770	58935	14	11°499	21°880	59009	10	17°135	25°329	59141	9	9°765	3°883
58788	12	24°506	12°221	58862	12	8°786	17°458	58936	13	13°515	21°096	59010	20	17°477	25°455	59142	10	10°195	3°143
58789	14	25°266	12°060	58863	14	13°131	17°179	58937*	27	13°744	21°505	59011*	19	20°048	25°490	59143	22	14°998	3°921
58790	15	25°672	12°191	58864	11	15°436	17°134	58938	11	14°145	21°583	59012	20	22°874	25°197	59144	10	15°391	3°537
58791	14	0°923	13°509	58865	22	17°744	17°509	58939	12	14°852	21°476	59013*	60	23°220	25°806	59145	20	17°312	3°027
58792	16	2°303	13°067	58866	14	21°236	17°501	58940*	22	15°154	21°797	59014	15	23°749	25°314	59146	10	17°641	3°829
58793	15	5°461	13°857	58867	10	23°135	17°559	58941	10	17°264	21°605	59015	19	24°230	25°721	59147	11	19°548	3°618
58794	10	6°624	13°610	58868	12	24°196	17°759	58942*	30	18°528	21°950	59016*	33	24°738	25°562	59148	10	20°157	3°819
58795	20	8°057	13°487	58869	18	1°395	18°209	58943*	23	19°838	21°790	59017	23	25°461	25°700	59149	9	21°079	3°789
58796	15	10°140	13°609	58870	16	2°522	18°319	58944	13	20°424	21°855					59150	10	22°282	3°200
58797	17	10°424	13°570	58871	13	3°079	18°380	58945	9	20°509	21°971					59151	13	23°523	3°993
58798	15	10°537	13°498	58872	14	10°197	18°181	58946	18	20°521	21°807					59152	22	24°958	3°027
58799	21	15°067	13°095	58873	14	10°962	18°343	58947	13	25°871	21°620					59153	9	4°656	4°493
58800	14	21°534	13°906	58874	11	13°696	18°565	58948	21	1°019	22°455					59154	12	5°517	4°189
58801	13	21°963	13°249	58875	25	16°970	18°224	58949	13	3°260	22°332					59155	11	6°135	4°569
58802	14	22°311	13°358	58876	18	17°374	18°494	58950	10	9°591	22°584					59156	12	6°653	4°911
58803*	27	24°044	13°124	58877	22	17°785	18°099	58951	22	13°500	22°693					59157	10	8°195	4°742
58804*	33	24°219	13°226	58878	22	18°544	18°040	58952	12	13°815	22°138					59158	10	10°083	4°438
58805	14	1°245	14°258	58879	19	21°363	18°056	58953	12	15°033	22°116					59159	10	11°057	4°856
58806	19	1°319	14°286	58880	10	23°768	18°439	58954	10	18°227	22°781					59160	10	11°309	4°857
58807	14	1°510	14°604	58881	18	24°785	18°466	58955	9	18°505	22°127					59161	10	16°657	4°083
58808	13	5°415	14°459	58882	14	24°981	18°915	58956	30	1°049	23°844					59162*	27	21°872	4°736
58809	11	6°719	14°547	58883	30	25°845	18°808	58957*	70	2°988	23°696					59163	9	6°635	5°054
58810	12	7°090	14°800	58884	35	1°240	19°909	58958*	36	3°770	23°532					59164	10	8°353	5°642
58811	12	7°737	14°120	58885	12	5°196	19°891	58959*	22	3°787	23°692					59165	10	19°864	5°410
58812	21	7°895	14°419	58886	14	5°387	19°409	58960	14	6°158	23°494					59166	10	21°676	5°677
58813	15	8°929	14°445	58887	16	5°650	19°074	58961	13	9°595	23°602					59167	12	25°133	5°943
58814	21	10°144	14°055	58888*	19	6°700	19°999	58962	20	11°040	23°638					59168	15	0°514	6°882
58815	22	10°956	14°826	58889	13	6°944	19°488	58963	16	11°600	23°819					59169	13	2°922	6°941
58816	14	11°681	14°213	58890	18	7°206	19°380	58964	18	14°554	23°074					59170	12	3°511	6°224
58817	16	12°574	14°312	58891	12	8°496	19°926	58965*	43	15°920	23°123					59171	10	7°645	6°159
58818	17	14°194	14°528	58892	12	11°541	19°272	58966	11	17°534	23°664					59172	11	8°849	6°727
58819*	31	19°008	14°882	58893*	44	12°190	19°530	58967	10	18°913	23°663					59173	10	8°946	6°579
58820	14	19°460	14°078	58894	12	13°570	19°771	58968	11	19°290	23°800					59174	12	10°534	6°151
58821	15	19°562	14°618	58895	13	15°860	19°589	58969	20	19°864	23°515					59175	20	11°684	6°608
58822*	40	19°788	14°060	58896	12	19°828	19°730	58970*	40	19°966	23°815					59176	13	15°389	6°677
58823	16	19°990	14°754	58897	15	20°065	19°205	58971	13	20°630	23°866					59177	10	17°284	6°149
58824	26	1°248	15°099	58898	17	21°026	19°560	58972	14	21°719	23°561					59178*	21	19°313	6°298
58825*	32	1°322	15°350	58899	14	21°912	19°741	58973*	21	24°340	23°053					59179	10	19°850	6°451
58826	13	5°604	15°963	58900	22	22°080	19°070	58974	20	6°521	24°476					59180	17	20°453	6°901
58827*	41	5°749	15°830	58901	11	22°317	19°044	58975	17	8°290	24°629					59181	10	20°841	6°920
58828	10	8°370	15°038	58902	10	25°522	19°150	58976	22	14°037	24°432					59182*	21	22°637	6°594
58829	19	9°848	15°229	58903	12	25°668	19°107	58977*	32	15°331	24°599					59183	13	22°654	6°456
58830	20	14°724	15°865	58904	21	1°771	20°981	58978	11	15°554	24°207					59184	12	0°192	7°892
58831	9	15°060	15°866	58905	18	2°268	20°067	58979*	36	15°901	24°863					59185	20	0°476	7°775
58832	19	15°731	15°626	58906	19	2°290	20°998	58980*	46	16°155	24°272					59186	11	2°486	7°165
58833	20	16°228	15°639	58907	12	4°693	20°549	58981*	29	16°859	24°570					59187*	21	11°421	7°613
58834*	32	16°355	15°370	58908	12	9°122	20°435	58982	11	17°460	24°409					59188	21	18°147	7°994
58835*	34	16°470	15°549	58909	10	10°331	20°569	58983	12	17°474	24°777					59189	10	22°270	7°583
58836*	33	19°016	15°317	58910	10	15°340	20°224	58984	11	18°250	24°325					59190	10	23°667	7°132
58837	17	19°301	15°855	58911	17	17°655	20°212	58985	12	18°507	24°700					59191*	46	23°870	7°119
58838	23	22°525	15°480	58912	13	17°713	20°186	58986	21	18°631	24°070					59192	10	24°041	7°629
58839	14	22°791	15°127	58913	21	19°428	20°973	58987	12	19°796	24°318					59193	19	24°281	7°961
58840	10	24°731	15°800	58914	25	21°314	20°919	58988	13	20°422	24°970					59194*	30	0°499	8°024
58841	14	25°414	15°358	58915	10	21°576	20°762	58989	13	21°505	24°659					59195	10	2°103	8°568
58842	15	0°982	16°499	58916	10	21°988	20°373	58990	11	22°437	24°689					59196	19	5°110	8°103
58843	15	1°000	16°347	58917	11	22°147	20°528	58991	12	22°474	24°478					59197	11	14°424	8°886
58844	14	1°434	16°160	58918	15	23°573	20°404	58992	20	24°019	24°561					59198	20	17°310	8°782
58845	31	2°174	16°183	58919	10	23°660	20°669	58993	26	24°083	24°640					59199	12	18°318	8°629
58846	13	5°756	16°117	58920	13	24°551	20°400	58994	17	25°440	24°604					59200	13	21°411	8°688
58847	10	6°963	16°928	58921*	26	24°677	20°818	58995	23	25°634	24°820					59201	12	23°560	8°857

59208	10	12°9'17"	9°9'86"	59282*	19	23°6'9"	15°7'67"	59356	9	17°5'19"	22°5'05"	59557	12	6°49'3"	3°6'49"
59209	10	13°8'06"	9°2'82"	59283*	22	23°9'19"	15°5'70"	59357	10	18°5'64"	22°4'64"	59558	19	7°5'27"	3°3'72"
59210*	24	15°3'12"	9°5'00"	59284	13	3°18'7"	16°5'16"	59358	10	18°6'54"	22°5'06"	59559	19	11°29'2"	3°2'74"
59211	16	21°2'96"	9°1'86"	59285	10	3°5'82"	16°4'51"	59359*	21	22°1'50"	22°0'73"	59560	12	12°9'49"	3°2'83"
59212	10	24°4'20"	9°0'71"	59286	10	6°0'01"	16°8'92"	59360*	27	22°1'86"	22°0'99"	59561	29	13°7'97"	3°1'00"
59213	10	1°5'78"	10°4'12"	59287	9	9°3'59"	16°3'90"	59361*	37	23°9'80"	22°5'55"	59562	11	14°8'64"	3°4'50"
59214	10	3°2'84"	10°5'12"	59288	13	9°5'18"	16°9'28"	59362*	23	24°1'53"	22°7'67"	59563	22	15°7'05"	3°8'33"
59215	10	5°4'17"	10°4'86"	59289	10	10°2'07"	16°9'30"	59363	12	0°1'84"	23°2'93"	59564	16	15°8'33"	3°5'60"
59216*	30	6°3'68"	10°9'55"	59290	10	12°0'44"	16°9'02"	59364	10	6°7'65"	23°4'65"	59565	18	16°1'26"	3°6'88"
59217	12	10°0'42"	10°5'23"	59291	9	15°3'85"	16°4'96"	59365	10	7°2'54"	23°8'32"	59566	12	16°9'07"	3°3'27"
59218*	11	15°6'60"	10°9'92"	59292	12	16°3'89"	16°2'87"	59366*	32	11°5'73"	23°1'84"	59567	11	16°9'44"	3°7'77"
59219	13	16°3'20"	10°3'33"	59293	10	18°3'75"	16°4'36"	59367	10	13°6'17"	23°7'97"	59568	11	18°5'88"	3°6'88"
59220	14	16°9'56"	10°0'58"	59294	10	18°4'05"	16°3'54"	59368	10	14°5'69"	23°2'24"	59569	12	19°0'42"	3°4'36"
59221	10	18°3'05"	10°8'15"	59295	10	19°0'62"	16°6'31"	59369	10	15°9'08"	23°4'11"	59570	19	19°4'71"	3°9'13"
59222	11	18°4'12"	10°2'48"	59296*	23	20°0'65"	16°6'57"	59370	11	16°8'24"	23°0'70"	59571	10	20°1'41"	3°5'59"
59223	10	22°9'20"	10°5'09"	59297	10	20°3'56"	16°4'69"	59371	9	19°1'28"	23°6'57"	59572	12	22°2'61"	3°3'87"
59224	16	23°8'34"	10°0'38"	59298	10	24°9'14"	16°6'78"	59372	18	19°7'39"	23°6'51"	59573	10	22°4'53"	3°7'29"
59225	23	0°1'38"	11°2'98"	59299	10	9°3'73"	17°4'48"	59373	11	20°9'39"	23°0'55"	59574	12	23°2'40"	3°8'25"
59226	9	2°6'93"	11°4'60"	59300	9	12°8'47"	17°4'78"	59374	12	24°1'01"	23°2'98"	59575	11	23°3'97"	3°6'94"
59227	10	2°8'27"	11°9'14"	59301	22	0°4'87"	18°7'95"	59375	12	1°3'64"	24°9'13"	59576	12	23°7'02"	3°6'20"
59228	10	3°5'83"	11°7'43"	59302	10	0°7'23"	18°7'66"	59376	13	2°5'00"	24°2'63"	59577	27	1°2'27"	4°5'70"
59229	10	3°9'90"	11°8'68"	59303	11	3°1'86"	18°1'55"	59377	19	2°5'63"	24°3'41"	59578	17	8°7'29"	4°1'66"
59230	10	8°6'58"	11°4'44"	59304	10	4°0'77"	18°7'85"	59378	10	3°9'23"	24°2'86"	59579	12	9°7'50"	4°1'00"
59231*	10	11°3'97"	11°5'10"	59305	20	4°2'47"	18°4'82"	59379	12	4°1'18"	24°4'97"	59580	21	10°7'12"	4°3'46"
59232	9	11°6'03"	11°8'37"	59306	11	5°9'36"	18°3'74"	59380	10	11°2'60"	24°0'45"	59581	14	11°2'59"	4°1'37"
59233*	19	14°2'10"	11°2'61"	59307	10	6°3'35"	18°4'86"	59381	12	14°2'02"	24°1'06"	59582	14	11°8'07"	4°5'90"
59234	10	18°5'58"	11°7'01"	59308	9	7°9'88"	18°7'98"	59382	10	15°7'71"	24°5'11"	59583	12	12°7'06"	4°4'92"
59235	11	22°5'16"	11°8'48"	59309	9	11°9'38"	18°3'43"	59383	10	16°6'81"	24°7'43"	59584	12	15°3'08"	4°7'73"
59236	21	23°5'09"	11°0'15"	59310	10	12°5'92"	18°1'81"	59384	20	17°7'30"	24°5'03"	59585	18	20°6'50"	4°4'51"
59237*	18	23°9'40"	11°6'97"	59311*	14	14°7'17"	18°7'79"	59385	10	18°1'14"	24°3'35"	59586	21	20°9'94"	4°9'40"
59238	30	0°0'93"	12°7'09"	59312	10	15°4'16"	18°3'64"	59386	10	18°2'05"	24°6'78"	59587	14	23°5'93"	4°9'50"
59239	9	0°2'94"	12°9'74"	59313	10	17°5'00"	18°2'76"	59387	10	18°8'31"	24°5'63"	59588	11	24°0'85"	4°5'22"
59240*	20	2°3'73"	12°8'22"	59314	9	17°8'04"	18°3'31"	59388	11	21°1'88"	24°4'47"	59589	10	25°0'16"	4°8'61"
59241*	27	2°5'49"	12°9'21"	59315	13	20°7'57"	18°0'46"	59389	13	23°6'24"	24°7'74"	59590	14	25°8'40"	4°9'07"
59242	15	5°8'30"	12°6'22"	59316	12	21°7'06"	18°1'30"	59390	19	23°7'43"	24°9'27"	59591	13	2°9'19"	5°3'78"
59243*	20	11°3'20"	12°8'27"	59317	13	22°1'75"	18°0'06"	59391*	64	1°7'15"	25°5'15"	59592	11	11°0'00"	5°4'33"
59244	18	12°2'19"	12°0'41"	59318*	11	22°5'30"	18°3'97"	59392*	21	3°2'32"	25°2'55"	59593	21	11°9'70"	5°6'33"
59245	24	14°5'25"	12°8'13"	59319	12	25°2'14"	18°9'05"	59393	18	3°2'71"	25°8'32"	59594*	28	13°6'30"	5°8'68"
59246*	13	21°0'24"	12°4'70"	59320	12	0°3'25"	19°4'70"	59394	11	3°9'58"	25°3'82"	59595*	39	14°3'11"	5°6'89"
59247	14	23°3'99"	12°0'56"	59321	10	5°6'74"	19°5'04"	59395	12	4°5'01"	25°4'31"	59596	14	16°1'72"	5°6'51"
59248	12	0°6'43"	13°0'76"	59322*	20	7°4'13"	19°7'04"	59396	19	11°8'46"	25°4'45"	59597	16	17°8'99"	5°4'86"
59249	11	6°0'84"	13°7'94"	59323	10	8°8'32"	19°0'51"	59397	10	12°4'07"	25°9'73"	59598	12	18°1'70"	5°1'30"
59250	10	8°5'28"	13°5'59"	59324*	31	15°0'16"	19°9'44"	59398	10	12°5'49"	25°8'35"	59599	11	18°7'36"	5°6'65"
59251*	28	11°8'64"	13°0'79"	59325	10	15°6'70"	19°9'05"	59399	10	13°2'04"	25°2'91"	59600*	23	20°1'55"	5°1'98"
59252	10	12°4'44"	13°7'62"	59326*	14	22°4'50"	19°3'98"	59400	10	13°3'06"	25°6'42"	59601	13	20°8'38"	5°4'70"
59253	10	15°1'77"	13°8'46"	59327	13	23°0'81"	19°4'00"	59401	10	13°7'20"	25°1'93"	59602	12	22°7'27"	5°5'41"
59254	13	17°9'34"	13°3'00"	59328	10	0°5'74"	20°2'53"	59402	11	14°1'03"	25°8'55"	59603	14	24°6'72"	5°8'53"
59255*	17	21°7'73"	13°6'26"	59329	10	1°9'98"	20°1'08"	59403	10	15°7'45"	25°7'83"	59604	19	2°8'63"	6°4'99"
59256*	16	22°3'56"	13°1'69"	59330*	18	3°1'06"	20°5'10"	59404	19	16°6'06"	25°2'60"	59605	10	3°2'22"	6°2'30"
59257	11	24°8'06"	13°5'38"	59331	9	7°9'62"	20°8'02"	59405	18	19°6'11"	25°2'29"	59606	11	4°3'40"	6°2'78"
59258	10	1°1'47"	14°8'42"	59332	10	9°4'35"	20°4'48"	59406	11	19°6'12"	25°0'64"	59607	26	7°0'20"	6°9'40"
59259	12	5°9'91"	14°3'57"	59333	11	9°7'46"	20°6'87"	59407	10	23°5'35"	25°2'34"	59608	15	8°4'16"	6°1'27"
59260	10	7°9'07"	14°7'54"	59334*	40	11°1'89"	20°4'72"					59609	18	8°7'41"	6°1'03"
59261*	14	8°1'10"	14°3'05"	59335	10	14°3'78"	20°5'53"					59610*	24	9°9'85"	6°6'34"
59262*	29	10°7'62"	14°0'73"	59336*	32	15°9'26"	20°5'45"					59611	15	11°4'89"	6°5'86"
59263	10	11°6'94"	14°9'14"	59337	10	18°1'41"	20°0'39"					59612	17	13°6'96"	6°7'71"
59264	9	13°4'43"	14°2'67"	59338	10	18°8'21"	20°0'07"					59613	15	14°1'41"	6°7'68"
59265*	11	17°5'37"	14°0'20"	59339	10	4°3'14"	21°2'98"					59614	18	15°5'88"	6°0'50"
59266	10	22°3'00"	14°3'88"	59340	10	5°1'44"	21°9'72"					59615	14	15°6'47"	6°9'99"
59267*	34	24°5'87"	14°9'23"	59341	9	5°9'23"	21°5'25"					59616	14	15°7'17"	6°4'46"
59268	22	0°8'87"	15°1'95"	59342	10	10°0'43"	21°0'37"					59617*	39	16°9'68"	6°3'10"
59269	10	3°7'73"	15°0'39"	59343	12	15°2'10"	21°0'60"					59618*	32	17°7'59"	6°7'15"
59270	10	4°3'76"	15°7'23"	59344*	31	16°7'47"	21°5'43"					59619	13	19°1'96"	6°3'74"
59271	20	4°3'97"	15°8'33"	59345*	19	18°6'46"	21°6'16"					59620	14	21°3'39"	6°1'70"
59272	13	6°3'24"	15°0'58"	59346	10	21°8'07"	21°8'34"					59621	12	23°4'32"	6°6'77"
59273	11	6°4'75"	15°8'40"	59347*	38	24°6'74"	21°4'86"					59622	14	23°7'00"	6°8'70"
59274	10	7°9'03"	15°3'08"	59348	10	24°9'81"	21°6'04"					59623	18	23°7'85"	6°1'03"
59275*	19	8°4'60"	15°2'13"	59349*	10	2°7'98"	22°7'46"					59624*	41	0°3'80"	7°1'84"
59276*	19	13°5'28"	15°9'45"	59350	13	5°2'70"	22°2'46"					59625	20	0°3'92"	7°0'43"
59277	10	14°0'68"	15°5'88"	59351*	10	6°4'70"	22°9'04"					59626	13	1°4'17"	7°0'06"
59278	9	16°9'98"	15°5'93"	59352*	19	10°7'90"	22°7'75"					59627*	70	1°6'19"	7°6'95"
59279	11	17°7'35"	15°4'56"	59353*	13	12°3'84"	22°9'63"					59628	12	2°1'24"	7°1'37"
59280	10	19°4'74"	15°5'11"	59354	13	15°7'52"	22°1'88"					59629	12	3°2'77"	7°3'90"
59281	10	23°0'54"	15°7'13"	59355	10	17°4'41"	22°4'69"					59630	13	3°3'58"	7°0'15"

R. A. 19^h 8^m

Plate 2366; 1904 Aug. 29.

Provisional Constants.

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-00389 -00042 -1535

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No.	d	x	y
59501	24	3°3'22"	0°5'00"

59631	12	5'822	7'218	59705	15	25'695	10'421	59779*	45	2'440	15'485	59853	10	13'343	19'744	59927	12	16'469	22'243
59632	19	7'370	7'486	59706	15	25'885	10'488	59780	12	5'820	15'339	59854	16	13'439	19'454	59928	13	16'729	22'820
59633	16	9'172	7'672	59707	15	0'716	11'093	59781	11	7'954	15'746	59855*	31	13'714	19'769	59929	13	16'958	22'541
59634	30	12'077	7'421	59708	30	1'312	11'592	59782	20	9'844	15'084	59856	16	14'280	19'457	59930	13	18'599	22'900
59635	24	12'092	7'405	59709	12	5'160	11'016	59783*	30	9'910	15'462	59857	20	14'361	19'748	59931	18	20'953	22'291
59636	19	14'002	7'536	59710	14	5'593	11'864	59784	10	10'119	15'223	59858	11	15'133	19'129	59932	17	23'219	22'405
59637	16	16'305	7'624	59711	13	5'644	11'244	59785	18	13'982	15'359	59859	15	16'907	19'487	59933	18	23'424	22'528
59638	15	17'371	7'457	59712	14	7'170	11'859	59786	19	22'087	15'412	59860*	48	17'709	19'822	59934*	27	24'103	22'780
59639	20	18'540	7'920	59713	15	9'340	11'759	59787	12	22'720	15'230	59861	18	18'952	19'760	59935	15	24'434	22'280
59640	11	20'684	7'114	59714	10	11'296	11'246	59788	11	25'314	15'407	59862*	22	21'803	19'084	59936	16	24'614	22'321
59641	9	20'847	7'490	59715	18	11'807	11'932	59789	17	25'800	15'065	59863*	22	22'096	19'754	59937*	63	1'948	23'124
59642	11	21'776	7'451	59716	20	11'811	11'010	59790	20	0'924	16'294	59864*	28	22'446	19'425	59938	26	2'076	23'864
59643	13	22'572	7'422	59717	19	16'008	11'230	59791*	24	1'568	16'339	59865	24	3'220	20'806	59939*	39	2'120	23'332
59644	14	23'037	7'781	59718	18	16'747	11'944	59792*	33	1'787	16'140	59866	13	4'464	20'873	59940	21	4'178	23'544
59645	14	23'157	7'842	59719*	45	16'885	11'062	59793	13	2'915	16'861	59867	14	6'535	20'417	59941	20	5'265	23'420
59646	13	23'427	7'404	59720	20	19'736	11'974	59794	13	4'137	16'305	59868	6	6'799	20'894	59942	16	5'886	23'529
59647	12	23'694	7'769	59721	18	20'475	11'291	59795	10	4'982	16'507	59869	13	7'011	20'270	59943	16	6'019	23'122
59648	12	23'730	7'344	59722	22	21'393	11'103	59796*	22	6'403	16'920	59870	18	7'896	20'229	59944	18	6'549	23'457
59649	12	25'613	7'216	59723	13	22'158	11'219	59797*	29	8'109	16'907	59871	14	10'551	20'026	59945*	20	7'876	23'643
59650*	22	25'682	7'410	59724	12	23'274	11'317	59798	14	11'493	16'395	59872	14	11'652	20'280	59946	16	7'909	23'231
59651	21	0'023	8'180	59725	13	25'875	11'390	59799	18	14'761	16'117	59873	14	11'742	20'164	59947	13	8'281	23'499
59652	22	1'795	8'199	59726	20	0'330	12'441	59800	16	18'968	16'022	59874	15	12'289	20'518	59948	12	9'579	23'518
59653	22	2'044	8'527	59727	13	1'124	12'797	59801	12	19'084	16'362	59875	11	12'907	20'120	59949	12	10'006	23'334
59654	14	3'242	8'034	59728	16	1'218	12'633	59802	15	20'756	16'948	59876	14	13'393	20'308	59950	11	10'750	23'973
59655*	29	4'730	8'776	59729*	30	1'750	12'270	59803*	27	21'634	16'137	59877	22	13'944	20'830	59951	12	11'407	23'034
59656	12	5'073	8'320	59730	14	3'522	12'858	59804	13	24'115	16'550	59878	26	17'408	20'037	59952	11	11'630	23'242
59657	10	5'320	8'305	59731	11	5'560	12'329	59805*	28	24'840	16'220	59879	10	18'919	20'809	59953	12	11'893	23'615
59658	13	5'640	8'822	59732	12	5'837	12'041	59806	16	2'799	17'235	59880	10	19'130	20'860	59954	10	13'191	23'329
59659*	30	9'151	8'427	59733	14	7'561	12'215	59807	11	4'375	17'969	59881*	22	20'189	20'244	59955	11	13'725	23'650
59660	17	9'393	8'612	59734	18	10'440	12'170	59808	14	7'346	17'412	59882	14	20'592	20'804	59956	13	13'863	23'229
59661	17	10'388	8'999	59735*	34	10'547	12'727	59809	11	7'590	17'051	59883	16	21'968	20'788	59957	13	14'794	23'992
59662	18	13'730	8'481	59736	18	14'860	12'679	59810	11	8'385	17'930	59884	12	22'034	20'845	59958	11	16'328	23'402
59663	14	17'770	8'270	59737	16	19'137	12'832	59811	10	8'420	17'266	59885	14	24'149	20'071	59959	14	17'040	23'024
59664	14	17'867	8'550	59738	16	22'095	12'392	59812	11	9'231	17'937	59886	13	24'438	20'020	59960	10	18'460	23'652
59665	11	21'382	8'700	59739	14	22'283	12'334	59813	21	11'300	17'963	59887	24	25'609	20'690	59961	17	18'498	23'346
59666*	27	22'847	8'156	59740	12	23'079	12'900	59814	17	15'254	17'884	59888	17	3'632	21'782	59962	14	19'413	23'982
59667*	33	23'722	8'074	59741	11	23'245	12'460	59815	14	15'627	17'370	59889*	28	6'987	21'909	59963	13	19'653	23'219
59668	11	24'498	8'381	59742	14	24'151	12'197	59816	14	17'609	17'290	59890	11	7'897	21'710	59964	14	20'270	23'201
59669	14	25'194	8'125	59743	10	25'069	12'348	59817	12	20'417	17'909	59891	11	7'995	21'098	59965	13	21'283	23'200
59670	12	25'222	8'265	59744*	28	0'190	13'762	59818	12	21'939	17'537	59892	14	8'760	21'514	59966	14	21'562	23'355
59671	18	1'332	9'436	59745	15	1'564	13'411	59819	10	24'213	17'782	59893	12	10'308	21'941	59967	24	25'592	23'717
59672	14	2'196	9'638	59746	17	1'583	13'400	59820	18	24'712	17'417	59894	17	10'617	21'833	59968	13	7'210	24'853
59673	18	2'636	9'305	59747	17	1'809	13'876	59821	14	25'200	17'006	59895	12	10'808	21'115	59969	10	7'740	24'874
59674	14	3'105	9'324	59748	11	2'960	13'569	59822	11	25'264	17'917	59896	12	11'370	21'810	59970	17	8'709	24'793
59675	12	3'801	9'087	59749	12	3'585	13'221	59823	27	0'075	18'601	59897	10	12'479	21'113	59971	18	9'083	24'777
59676	12	4'202	9'621	59750	15	4'498	13'353	59824*	22	0'438	18'989	59898	9	12'914	21'220	59972	10	9'835	24'840
59677	17	5'170	9'850	59751*	22	6'747	13'110	59825	15	2'122	18'114	59899	10	13'037	21'001	59973	14	10'717	24'550
59678	15	7'881	9'376	59752	14	11'355	13'274	59826	17	5'401	18'537	59900	16	14'626	21'086	59974	10	10'879	24'355
59679	19	8'424	9'764	59753	15	11'758	13'420	59827	13	8'138	18'005	59901	12	16'221	21'734	59975	15	11'331	24'280
59680	18	11'434	9'520	59754*	19	11'770	13'193	59828*	13	8'724	18'151	59902	16	16'436	21'282	59976	11	12'196	24'860
59681	18	13'464	9'979	59755*	21	16'914	13'828	59829*	14	8'731	18'104	59903	10	16'970	21'621	59977	14	12'347	24'008
59682	10	15'322	9'552	59756	14	18'281	13'210	59830	9	12'022	18'292	59904	10	17'530	21'343	59978	11	13'529	24'539
59683	12	18'434	9'124	59757*	30	20'774	13'650	59831	15	12'575	18'020	59905	10	17'905	21'720	59979	14	14'827	24'382
59684	21	21'395	9'381	59758	12	21'580	13'112	59832	10	13'768	18'760	59906	19	19'245	21'818	59980	12	14'873	24'820
59685	14	23'250	9'410	59759	13	21'620	13'637	59833*	24	13'894	18'462	59907	22	19'984	21'543	59981	17	15'247	24'037
59686	21	23'401	9'085	59760*	20	22'256	13'086	59834	22	14'041	18'067	59908	13	22'969	21'120	59982	18	16'114	24'250
59687	12	24'317	9'584	59761	10	24'933	13'370	59835	12	14'144	18'598	59909	13	23'762	21'454	59983	13	16'529	24'919
59688	12	24'990	9'498	59762	19	0'149	14'981	59836	14	14'430	18'870	59910	22	25'531	21'674	59984	16	17'316	24'404
59689	22	1'627	10'611	59763	16	0'778	14'712	59837	13	14'588	18'777	59911*	37	0'107	22'670	59985	11	17'382	24'861
59690	10	4'510	10'868	59764	18	2'642	14'096	59838	11	14'651	18'682	59912*	48	0'145	22'696	59986	14	18'000	24'440
59691	12	5'666	10'095	59765	11	3'998	14'432	59839	11	22'020	18'201	59913	17	2'432	22'674	59987	19	20'661	24'409
59692	18	6'550	10'102	59766	12	4'510	14'956	59840	14	22'878	18'040	59914*	51	2'625	22'044	59988	15	22'737	24'575
59693																			

60001	15	21°825	25°024	60150	12	19°031	2°926	60224	8	16°548	5°940	60298	10	2°895	8°745	60372	9	25°303	10°227
60002	27	24°931	25°399	60151	9	19°214	2°640	60225	12	17°557	5°659	60299	15	3°586	8°483	60373	14	25°522	10°235
				60152	13	20°047	2°476	60226	11	18°746	5°290	60300	13	3°616	8°624	60374	10	0°574	11°603
				60153	7	20°882	2°697	60227*	24	19°012	5°849	60301	10	7°463	8°288	60375	9	0°625	11°502
				60154	12	21°766	2°066	60228	9	19°183	5°294	60302	14	9°857	8°486	60376	10	0°662	11°006
				60155	8	22°932	2°036	60229	7	19°330	5°198	60303	9	11°037	8°408	60377	10	0°676	11°145
				60156	11	24°963	2°695	60230	8	19°694	5°621	60304	9	11°783	8°066	60378	8	1°859	11°896
				60157	18	25°005	2°743	60231	18	19°994	5°289	60305	25	14°714	8°194	60379	10	2°504	11°283
				60158	10	0°619	3°767	60232	8	20°996	5°467	60306	15	15°142	8°876	60380	11	3°511	11°763
				60159	10	2°057	3°988	60233	8	21°892	5°953	60307	7	15°550	8°365	60381	13	4°295	11°744
				60160	16	3°731	3°229	60234	25	21°950	5°126	60308	8	15°696	8°762	60382	17	5°097	11°608
				60161	13	4°386	3°281	60235	9	22°402	5°387	60309	14	17°534	8°546	60383	14	5°562	11°465
				60162	11	4°502	3°964	60236	8	22°721	5°967	60310	11	18°085	8°788	60384	12	7°083	11°077
				60163*	28	4°751	3°020	60237	9	22°838	5°994	60311	8	19°041	8°902	60385	7	9°054	11°284
				60164	33	5°627	3°136	60238	36	23°426	5°517	60312	21	19°214	8°470	60386	12	9°386	11°946
				60165*	26	7°038	3°945	60239	9	24°374	5°176	60313	14	19°269	8°795	60387	14	9°947	11°917
				60166*	47	7°629	3°907	60240	12	25°096	5°664	60314	9	21°415	8°354	60388	17	10°739	11°588
				60167	7	8°423	3°408	60241	17	2°164	6°472	60315	11	22°536	8°543	60389	8	11°437	11°659
				60168	12	8°628	3°429	60242	15	3°049	6°214	60316	8	22°641	8°254	60390	7	11°663	11°982
				60169	7	9°217	3°151	60243	13	4°551	6°549	60317	9	24°475	8°592	60391	7	11°723	11°912
				60170	31	9°775	3°580	60244	15	4°658	6°967	60318	14	1°652	9°783	60392	9	12°294	11°517
				60171	14	11°513	3°622	60245	11	8°552	6°881	60319	24	1°804	9°457	60393	13	12°356	11°921
				60172	14	12°261	3°944	60246	27	9°065	6°907	60320	8	1°905	9°596	60394	23	12°615	11°478
				60173	21	12°925	3°203	60247	13	9°175	6°642	60321	9	2°042	9°396	60395	14	14°234	11°105
				60174	25	14°489	3°715	60248	23	9°512	6°898	60322	12	2°726	9°948	60396	11	15°993	11°118
				60175	7	14°841	3°724	60249	23	10°928	6°990	60323	13	3°397	9°856	60397	15	16°031	11°063
				60176	23	17°629	3°427	60250	9	11°113	6°189	60324	8	4°215	9°318	60398	13	19°612	11°961
				60177	27	18°425	3°867	60251	12	13°076	6°826	60325	16	5°376	9°342	60399	17	20°868	11°784
				60178	16	18°762	3°476	60252	14	13°137	6°550	60326	11	7°486	9°410	60400	29	21°467	11°849
				60179	21	19°073	3°688	60253	6	14°037	6°462	60327	12	10°088	9°563	60401	18	21°540	11°598
				60180	24	19°912	3°235	60254	16	15°023	6°167	60328	23	10°781	9°519	60402	13	21°561	11°809
				60181	12	19°967	3°063	60255	15	15°332	6°464	60329	17	11°258	9°422	60403	16	22°332	11°473
				60182	13	20°258	3°630	60256	18	17°689	6°375	60330	12	11°382	9°874	60404	8	22°791	11°917
				60183	8	21°095	3°567	60257	8	18°294	6°224	60331	16	14°105	9°817	60405	18	22°838	11°166
				60184	14	21°587	3°006	60258	9	19°306	6°887	60332	10	14°217	9°143	60406	8	23°964	11°023
				60185	7	21°718	3°311	60259	11	19°883	6°737	60333	18	15°472	9°897	60407	20	24°258	11°149
				60186	11	21°875	3°553	60260	21	20°548	6°293	60334	23	15°602	9°733	60408	13	24°785	11°708
				60187	9	21°947	3°784	60261	13	22°178	6°795	60335	20	16°879	9°876	60409	12	25°452	11°923
				60188	12	24°243	3°592	60262	23	23°553	6°207	60336	13	21°073	9°104	60410	16	0°523	12°774
				60189	15	25°494	3°587	60263	12	23°713	6°784	60337	19	21°632	9°429	60411	12	0°712	12°714
				60190	10	1°601	4°195	60264	8	23°734	6°487	60338	12	21°700	9°795	60412	9	1°672	12°831
				60191	12	2°450	4°888	60265	13	24°105	6°818	60339	24	23°274	9°636	60413	10	2°576	12°562
				60192	9	4°192	4°851	60266	9	25°472	6°689	60340	10	23°885	9°343	60414	8	2°628	12°408
				60193	8	4°515	4°399	60267	8	25°749	6°308	60341	9	24°759	9°164	60415	11	3°496	12°707
				60194	14	5°732	4°536	60268	7	0°164	7°838	60342	14	25°143	9°536	60416	14	5°127	12°386
				60195	8	9°457	4°024	60269	13	0°958	7°800	60343	12	2°167	10°933	60417	11	8°259	12°933
				60196	11	9°642	4°005	60270	7	1°572	7°564	60344	13	2°747	10°746	60418	10	9°008	12°219
				60197	22	11°316	4°121	60271	10	1°813	7°045	60345	9	4°104	10°777	60419	11	11°093	12°095
				60198	11	11°883	4°154	60272	14	1°814	7°777	60346	19	4°296	10°841	60420	21	11°289	12°048
				60199	18	14°158	4°620	60273	11	2°084	7°240	60347	8	6°386	10°792	60421	11	11°607	12°722
				60200	8	14°846	4°318	60274	14	2°116	7°713	60348	11	7°762	10°046	60422	12	12°126	12°212
				60201	17	15°004	4°040	60275*	30	4°068	7°766	60349	12	9°944	10°461	60423	11	12°143	12°371
				60202	10	17°081	4°322	60276	7	8°757	7°382	60350	16	10°982	10°419	60424	9	12°347	12°396
				60203	13	18°682	4°113	60277	8	10°936	7°242	60351	13	11°241	10°826	60425	22	12°446	12°044
				60204	10	18°961	4°658	60278	14	12°757	7°272	60352	12	11°400	10°404	60426	9	13°295	12°283
				60205	9	19°662	4°940	60279	12	13°174	7°363	60353	16	11°736	10°203	60427*	39	13°486	12°430
				60206	15	19°751	4°798	60280	12	13°224	7°887	60354	30	12°557	10°642	60428*	28	14°824	12°396
				60207	10	20°240	4°476	60281	11	13°759	7°167	60355	10	12°793	10°648	60429	21	15°026	12°257
				60208	13	20°998	4°854	60282	13	16°379	7°812	60356	9	13°158	10°994	60430*	19	15°443	12°337
				60209	11	21°282	4°079	60283	18	16°534	7°387	60357	7	16°258	10°648	60431	15	15°750	12°074
				60210	7	23°524	4°816	60284	8	18°491	7°381	60358	10	16°929	10°691	60432	10	15°758	12°157
				60211	8	23°527	4°252	60285	11	19°355	7°753	60359	13	17°595	10°764	60433	16	15°951	12°105
				60212	10	23°706	4°205	60286	21	20°618	7°466	60360	9	18°124	10°084	60434	17	16°710	12°252
				60213	11	24°463	4°022	60287	11	22°384	7°325	60361	13	19°630	10°430	60435	8	18°581	12°522
				60214	8	25°695	4°714	60288	23	23°739	7°186	60362	12	19°787	10°293	60436	9	19°307	12°556
				60215	12	1°106	5°917	60289	8	24°065	7°873	60363*	40	20°040	10°003	60437	8	19°884	12°960
				60216	14	1°962	5°321	60290	9	24°654	7°661	60364	13	20°056	10°312	60438	9	20°260	12°725
				60217	11	3°384	5°222	60291	13	25°321	7°107	60365	14	20°965	10°534	60439	12	20°552	12°197
				60218	10	4°209	5°258	60292	8	25°912	7°449	60366	8	22°449	10°568	60440	8	20°702	12°166
				60219	8	4°411	5°109	60293*	32	1°240	8°533	60367	17	22°588	10°836	60441	8	22°726	12°655
				60220	11	5°563	5°106	60294	8	1°427</									

60446	13	25·998	12·277	60520*	40	6·906	15·337	60594	9	9·844	17·294	60668	15	13·838	19·956	60742	8	25·426	21·197
60447	12	25·999	12·084	60521	23	7·084	15·558	60595	7	10·405	17·773	60669	11	14·117	19·414	60743	9	25·465	21·126
60448	11	0·013	13·498	60522	14	7·897	15·396	60596	14	10·594	17·866	60670	7	14·626	19·305	60744	13	1·721	22·778
60449*	24	0·689	13·466	60523	15	8·784	15·381	60597	9	10·970	17·164	60671	11	15·285	19·802	60745	16	1·928	22·901
60450	11	1·511	13·274	60524	12	11·296	15·484	60598	11	11·149	17·883	60672	8	15·648	19·645	60746	13	2·936	22·646
60451	9	3·368	13·730	60525	13	12·384	15·007	60599	19	11·269	17·696	60673	20	16·402	19·006	60747	9	3·121	22·684
60452*	57	5·913	13·844	60526	14	12·515	15·574	60600	11	11·717	17·878	60674	12	18·293	19·744	60748	8	3·778	22·277
60453	7	10·769	13·962	60527	16	16·134	15·875	60601	20	12·472	17·218	60675	7	18·796	19·424	60749	17	4·029	22·032
60454	9	13·744	13·066	60528	11	17·503	15·401	60602	28	13·958	17·073	60676	16	18·865	19·256	60750	9	6·193	22·608
60455	15	14·805	13·907	60529	12	17·752	15·083	60603	10	14·793	17·599	60677	8	20·197	19·574	60751	10	6·627	22·204
60456	14	17·448	13·667	60530	21	17·954	15·241	60604	23	15·986	17·196	60678	13	20·330	19·047	60752	12	7·411	22·384
60457*	37	18·066	13·243	60531	7	18·031	15·669	60605*	64	17·149	17·794	60679	16	20·850	19·193	60753	16	7·593	22·217
60458	13	18·747	13·788	60532	29	18·160	15·478	60606	26	17·372	17·717	60680	10	22·014	19·185	60754	9	8·636	22·202
60459	21	20·828	13·935	60533	12	18·335	15·124	60607	16	17·651	17·362	60681	25	23·015	19·671	60755	7	9·422	22·647
60460	12	20·959	13·284	60534	13	18·830	15·490	60608	23	18·266	17·934	60682*	27	24·762	19·503	60756	10	9·430	22·298
60461	9	21·374	13·917	60535	14	19·152	15·277	60609	11	18·884	17·481	60683	9	25·117	19·034	60757	9	9·646	22·560
60462	18	21·563	13·835	60536	9	19·197	15·278	60610	16	19·413	17·164	60684*	24	0·577	20·136	60758	14	9·949	22·109
60463	13	21·730	13·732	60537	12	19·887	15·626	60611*	34	21·403	17·977	60685	15	2·634	20·440	60759	8	10·723	22·610
60464	8	22·519	13·114	60538	12	20·800	15·197	60612	17	21·598	17·647	60686	14	2·923	20·385	60760	10	11·079	22·915
60465	9	22·534	13·798	60539	15	23·207	15·834	60613	11	22·784	17·153	60687	7	3·529	20·401	60761	8	11·266	22·172
60466	7	24·244	13·093	60540	9	23·419	15·511	60614	13	23·473	17·530	60688	7	4·964	20·249	60762	9	11·786	22·691
60467*	24	24·304	13·742	60541	11	23·805	15·836	60615	13	23·831	17·076	60689	13	6·445	20·036	60763	8	13·113	22·298
60468	10	25·601	13·426	60542	12	25·396	15·682	60616	11	23·894	17·602	60690	14	7·988	20·366	60764	9	13·173	22·539
60469	12	0·057	14·024	60543	9	25·495	15·564	60617	12	23·986	17·631	60691	17	8·146	20·668	60765	9	13·666	22·982
60470	14	4·456	14·567	60544	17	25·554	15·649	60618	30	24·134	17·254	60692	8	8·268	20·459	60766	12	14·098	22·833
60471	8	5·062	14·964	60545*	29	0·092	16·525	60619	11	24·980	17·843	60693	9	8·452	20·156	60767	10	14·354	22·708
60472	10	5·548	14·113	60546	8	1·658	16·887	60620	13	25·170	17·520	60694	12	10·273	20·157	60768	9	14·984	22·135
60473	13	5·964	14·282	60547	7	2·100	16·641	60621	12	0·495	18·586	60695	11	10·784	20·341	60769	10	16·400	22·194
60474	8	6·349	14·245	60548	13	2·573	16·918	60622	16	1·346	18·417	60696	8	10·994	20·048	60770	12	16·439	22·234
60475	20	7·975	14·390	60549*	34	3·297	16·582	60623	11	2·425	18·396	60697	13	11·191	20·926	60771	9	16·847	22·426
60476	13	9·115	14·334	60550	8	3·818	16·847	60624	9	2·680	18·147	60698	20	14·472	20·419	60772	10	17·026	22·135
60477	7	10·042	14·110	60551	10	4·863	16·068	60625	10	3·731	18·274	60699	16	14·668	20·781	60773	11	17·324	22·608
60478	8	11·513	14·798	60552	19	5·186	16·138	60626	22	5·014	18·341	60700	9	15·157	20·926	60774	10	17·412	22·174
60479	9	11·949	14·897	60553	12	5·277	16·276	60627	13	5·906	18·403	60701	14	15·308	20·647	60775*	30	18·578	22·896
60480*	37	14·325	14·836	60554	11	5·485	16·543	60628	14	7·187	18·711	60702	10	16·307	20·296	60776	9	18·764	22·856
60481	26	14·768	14·264	60555	15	5·775	16·278	60629	9	7·860	18·637	60703	9	17·474	20·263	60777	13	20·363	22·481
60482	15	15·144	14·093	60556	16	5·933	16·375	60630	11	8·187	18·612	60704	8	17·758	20·454	60778	20	20·786	22·337
60483	20	15·326	14·739	60557	10	5·953	16·394	60631	9	8·536	18·813	60705	24	17·984	20·322	60779	7	20·994	22·888
60484	22	16·255	14·732	60558	7	7·252	16·778	60632	22	9·228	18·184	60706	13	18·355	20·743	60780	12	22·322	22·158
60485	19	17·547	14·199	60559	10	9·688	16·877	60633	12	9·835	18·453	60707	7	19·525	20·833	60781	14	0·072	23·744
60486	18	18·178	14·018	60560	16	10·516	16·716	60634	8	10·176	18·018	60708	13	19·878	20·509	60782*	29	2·611	23·146
60487	11	18·987	14·356	60561	14	11·047	16·660	60635	17	10·602	18·846	60709	13	20·596	20·508	60783	13	5·374	23·043
60488	9	19·026	14·212	60562*	34	11·058	16·010	60636	14	10·892	18·980	60710	10	21·572	20·976	60784	9	6·854	23·385
60489	23	19·056	14·214	60563	21	11·092	16·364	60637	16	11·343	18·581	60711	7	21·843	20·027	60785*	60	8·601	23·642
60490	22	19·948	14·670	60564	9	12·947	16·105	60638	12	11·464	18·285	60712	15	22·022	20·239	60786	10	9·635	23·436
60491*	43	20·203	14·797	60565	7	13·468	16·436	60639	7	13·102	18·832	60713	11	22·977	20·986	60787	7	10·224	23·825
60492	15	20·396	14·142	60566	13	13·586	16·064	60640	16	13·487	18·807	60714	16	25·008	20·747	60788	20	12·735	23·181
60493	18	21·084	14·475	60567	7	13·673	16·135	60641	10	13·882	18·817	60715	11	25·256	20·634	60789	12	12·913	23·013
60494	17	21·228	14·916	60568	20	13·842	16·878	60642	12	14·294	18·116	60716	13	25·452	20·970	60790	7	12·947	23·442
60495	7	22·009	14·274	60569	11	14·682	16·495	60643	11	15·684	18·715	60717	14	0·456	21·173	60791	10	13·134	23·686
60496	13	22·268	14·835	60570	9	15·683	16·570	60644	15	16·216	18·867	60718	12	0·525	21·232	60792	14	13·550	23·893
60497	13	23·044	14·731	60571	10	16·288	16·313	60645	12	16·310	18·623	60719	12	1·461	21·497	60793	12	13·927	23·074
60498	7	23·069	14·181	60572	13	16·409	16·161	60646*	64	16·643	18·146	60720	9	2·261	21·823	60794	11	14·078	23·015
60499	13	23·147	14·943	60573*	40	17·614	16·589	60647	13	19·809	18·073	60721	8	2·906	21·657	60795	19	14·800	23·411
60500	8	23·262	14·640	60574	8	18·916	16·229	60648	13	21·196	18·254	60722	8	3·594	21·546	60796	23	15·049	23·689
60501	8	23·285	14·114	60575	21	19·271	16·854	60649	11	22·408	18·025	60723	26	4·102	21·044	60797	13	15·810	23·454
60502	17	23·747	14·836	60576	9	20·134	16·005	60650	10	23·790	18·717	60724	22	4·954	21·665	60798	10	20·480	23·613
60503	11	24·193	14·836	60577*	33	20·576	16·542	60651	9	24·211	18·204	60725	8	6·037	21·294	60799	16	20·598	23·144
60504	9	24·392	14·889	60578	11	20·655	16·523	60652	11	24·382	18·043	60726*	43	6·583	21·190	60800	13	20·963	23·806
60505	8	25·021	14·207	60579	13	21·481	16·448	60653	13	24·503	18·865	60727	11	7·607	21·637	60801	7	22·038	23·035
60506	8	25·217	14·457	60580	7	22·217	16·576	60654	21	24·665	18·185	60728	12	7·848	21·445	60802	9	23·216	23·684
60507	14	25·237	14·066	60581	9	23·358	16·616	60655	19	24·852	18·184	60729	10	8·574	21·749	60803	14	23·451	23·427
60508</																			

60816	9	13.188	24.119	60910	15	19.671	0.686	60984	13	13.958	3.588	61058	16	23.185	5.089	61132	25	20.284	7.562
60817	14	14.077	24.800	60911	9	21.456	0.512	60985	9	14.442	3.662	61059	13	23.987	5.549	61133	13	20.467	7.053
60818	13	16.308	24.588	60912	11	21.604	0.512	60986	12	14.921	3.242	61060	7	25.492	5.631	61134	8	20.613	7.583
60819	8	16.449	24.376	60913	7	21.851	0.487	60987	11	16.576	3.258	61061	16	25.964	5.024	61135	10	22.443	7.783
60820	8	20.975	24.913	60914	14	22.106	0.633	60988*	43	18.972	3.623	61062	11	0.169	6.812	61136	15	24.585	7.668
60821	8	22.140	24.933	60915	6	22.839	0.752	60989	5	19.028	3.953	61063	21	1.532	6.193	61137	28	24.923	7.468
60822	24	22.916	24.624	60916	15	23.343	0.280	60990	12	19.634	3.848	61064	10	1.706	6.765	61138	16	25.615	7.086
60823	9	24.425	24.190	60917	7	23.772	0.489	60991	19	21.391	3.347	61065	10	2.098	6.792	61139	7	25.714	7.101
60824	8	25.796	24.345	60918	24	24.666	0.256	60992	15	22.682	3.223	61066	8	3.466	6.632	61140	8	0.573	8.550
60825	12	0.348	25.414	60919	12	24.945	0.592	60993	8	22.946	3.948	61067	8	3.732	6.241	61141	10	4.513	8.247
60826	24	3.457	25.760	60920	22	0.247	1.578	60994	11	24.366	3.590	61068*	31	6.643	6.387	61142	15	4.564	8.468
60827	21	3.904	25.055	60921	14	3.621	1.364	60995	9	25.198	3.939	61069	20	10.241	6.894	61143	6	5.225	8.332
60828	12	4.713	25.721	60922	9	4.171	1.385	60996	16	25.747	3.072	61070	10	12.309	6.083	61144	13	7.406	8.185
60829	9	6.006	25.705	60923	18	4.183	1.333	60997	7	1.636	4.187	61071	13	13.706	6.119	61145	12	7.601	8.363
60830	13	6.275	25.387	60924	16	4.893	1.862	60998	8	3.640	4.650	61072	13	13.738	6.046	61146	12	7.766	8.122
60831	7	7.887	25.794	60925	7	6.216	1.806	60999	18	6.336	4.175	61073*	78	14.360	6.640	61147	8	7.823	8.296
60832*	36	8.031	25.096	60926	21	6.435	1.751	61000	10	6.578	4.073	61074	14	14.523	6.436	61148	10	7.976	8.784
60833	9	8.648	25.176	60927	11	6.504	1.558	61001	7	7.494	4.005	61075	13	14.801	6.342	61149	16	8.697	8.885
60834	19	8.849	25.688	60928	11	6.702	1.672	61002	10	8.907	4.113	61076	22	14.814	6.386	61150	12	8.876	8.871
60835	22	10.160	25.569	60929	19	8.548	1.137	61003	5	9.183	4.438	61077	20	14.918	6.428	61151	12	9.800	8.982
60836	14	10.431	25.906	60930	6	9.354	1.361	61004	6	10.155	4.490	61078	11	14.995	6.443	61152	14	9.917	8.226
60837	8	10.657	25.285	60931	11	10.114	1.126	61005	7	10.396	4.047	61079	13	15.159	6.752	61153	9	10.821	8.893
60838*	33	10.726	25.756	60932	12	11.153	1.182	61006	6	10.496	4.355	61080	10	15.307	6.374	61154	16	11.430	8.896
60839	8	11.425	25.385	60933	16	12.815	1.015	61007	17	11.349	4.073	61081	24	15.346	6.245	61155	9	11.574	8.167
60840	19	11.942	25.474	60934	11	13.801	1.158	61008	7	12.095	4.987	61082	13	18.138	6.020	61156	21	13.053	8.484
60841	14	13.993	25.049	60935	23	14.757	1.054	61009	14	13.430	4.345	61083	14	19.024	6.403	61157	14	13.077	8.946
60842	15	14.592	25.535	60936	16	15.101	1.626	61010	16	15.274	4.851	61084	17	19.325	6.630	61158	12	13.354	8.915
60843	16	15.379	25.667	60937	6	15.189	1.818	61011	9	15.866	4.543	61085	10	21.276	6.385	61159	27	13.493	8.052
60844	8	16.010	25.293	60938	8	16.102	1.942	61012	6	15.906	4.184	61086	15	22.279	6.614	61160	17	13.783	8.360
60845	9	16.794	25.081	60939	17	16.196	1.711	61013	8	16.149	4.562	61087	11	22.987	6.298	61161	7	14.034	8.951
60846	8	17.286	25.624	60940	23	17.588	1.377	61014	14	18.265	4.779	61088	13	23.056	6.840	61162	6	14.403	8.686
60847	7	18.601	25.810	60941	12	17.721	1.662	61015	7	20.253	4.403	61089	14	24.067	6.025	61163	9	14.695	8.373
60848	13	19.365	25.388	60942	25	18.217	1.935	61016	7	20.881	4.161	61090	9	24.143	6.518	61164	21	14.715	8.833
60849	16	19.369	25.285	60943	12	18.643	1.205	61017	9	22.572	4.814	61091	17	24.540	6.489	61165	10	15.335	8.677
60850	7	20.617	25.822	60944	8	19.146	1.123	61018	10	22.584	4.513	61092	8	0.391	7.340	61166	7	16.407	8.765
60851	13	21.489	25.381	60945	20	19.194	1.241	61019	16	22.627	4.946	61093	23	1.742	7.167	61167	6	17.857	8.439
60852	8	21.663	25.205	60946	13	25.528	1.866	61020	10	23.299	4.923	61094	7	2.324	7.965	61168	6	17.986	8.470
60853	11	21.790	25.434	60947	7	2.855	2.647	61021	14	23.945	4.137	61095	7	2.667	7.621	61169	15	19.476	8.552
60854	13	22.378	25.155	60948	15	2.905	2.695	61022	34	1.388	5.509	61096	12	3.321	7.052	61170	10	19.538	8.571
60855	24	23.134	25.927	60949	14	4.506	2.721	61023	7	2.329	5.146	61097	8	4.045	7.298	61171	7	20.254	8.560
60856	22	25.158	25.173	60950	10	6.815	2.457	61024	11	3.064	5.614	61098	10	4.208	7.957	61172	21	20.963	8.765
60857	19	25.887	25.466	60951	6	7.296	2.254	61025	8	3.599	5.487	61099	12	4.318	7.348	61173	12	21.626	8.547
				60952	7	10.249	2.005	61026	7	6.897	5.144	61100	13	5.629	7.610	61174	12	22.401	8.025
				60953	10	10.591	2.697	61027	12	6.917	5.822	61101	9	5.986	7.333	61175	15	23.703	8.617
				60954	17	12.173	2.842	61028	16	8.109	5.006	61102	29	6.320	7.429	61176	14	24.384	8.498
				60955	13	12.299	2.958	61029	14	8.290	5.440	61103	15	6.652	7.214	61177	11	24.625	8.346
				60956	7	12.518	2.744	61030	20	9.146	5.165	61104	14	6.679	7.725	61178	14	24.738	8.039
				60957	8	16.198	2.521	61031	22	9.338	5.088	61105	17	7.836	7.423	61179	25	1.334	9.628
				60958	12	16.781	2.128	61032	12	10.001	5.085	61106	13	8.048	7.758	61180	7	1.944	9.319
				60959*	26	18.497	2.903	61033	18	10.046	5.274	61107	12	8.361	7.021	61181	14	3.203	9.486
				60960	21	19.827	2.779	61034	6	10.622	5.826	61108	13	8.808	7.855	61182	12	4.286	9.675
				60961	17	21.789	2.324	61035	17	10.815	5.196	61109	13	8.809	7.155	61183	8	4.441	9.168
				60962	12	22.010	2.504	61036*	37	11.191	5.291	61110	13	9.432	7.928	61184	8	4.584	9.457
				60963	12	22.967	2.568	61037	11										

61206	16	16°597	9°038	61280	6	22°981	11°654	61354	6	19°723	13°714	61428	12	15°165	15°361	61502	14	17°671	17°776
61207	10	17°069	9°364	61281	13	23°847	11°514	61355	10	19°815	13°807	61429	12	16°775	15°278	61503	17	18°531	17°697
61208	11	18°045	9°609	61282	10	23°906	11°521	61356	6	20°138	13°544	61430	18	16°987	15°390	61504	14	19°333	17°886
61209	7	18°672	9°202	61283	20	24°265	11°706	61357	14	20°451	13°426	61431	25	17°624	15°277	61505	12	19°647	17°128
61210*	34	19°894	9°720	61284	13	24°314	11°929	61358	13	24°502	13°245	61432	6	20°467	15°495	61506	9	19°699	17°274
61211	8	20°978	9°123	61285	8	25°512	11°207	61359	14	24°806	13°606	61433	6	21°593	15°312	61507	9	20°131	17°185
61212	14	21°579	9°896	61286	18	25°699	11°221	61360	6	0°178	14°293	61434	10	22°680	15°155	61508	12	20°538	17°288
61213	8	21°653	9°336	61287	6	1°053	12°325	61361	11	0°455	14°849	61435	18	23°110	15°758	61509	7	21°285	17°796
61214	22	23°366	9°079	61288*	31	2°106	12°182	61362	13	1°226	14°724	61436	6	24°098	15°082	61510	7	21°326	17°383
61215	16	25°065	9°707	61289*	12	2°795	12°227	61363	12	1°335	14°935	61437*	36	24°784	15°597	61511	13	21°684	17°295
61216	15	0°678	10°845	61290*	21	3°318	12°356	61364	17	1°934	14°816	61438	12	24°865	15°368	61512	20	22°715	17°812
61217	7	1°269	10°495	61291	20	3°659	12°781	61365	9	2°379	14°807	61439	26	25°450	15°906	61513	17	23°554	17°573
61218	12	2°026	10°339	61292	12	4°120	12°010	61366	5	2°401	14°203	61440	25	25°479	15°776	61514*	60	23°626	17°655
61219	13	2°113	10°850	61293	13	4°124	12°207	61367	7	2°578	14°850	61441	9	1°586	16°603	61515	20	24°052	17°289
61220	10	2°193	10°918	61294	11	4°739	12°772	61368	6	3°193	14°155	61442	11	2°353	16°384	61516	6	24°186	17°055
61221	10	3°376	10°174	61295	13	5°381	12°373	61369	6	3°394	14°399	61443	14	2°601	16°758	61517	7	24°245	17°624
61222	15	3°599	10°173	61296	15	5°676	12°165	61370	14	3°409	14°014	61444	14	2°923	16°032	61518	21	24°377	17°326
61223	14	4°084	10°149	61297	13	7°401	12°282	61371	5	4°086	14°035	61445	7	3°855	16°926	61519	19	24°523	17°124
61224	13	5°105	10°750	61298	6	7°536	12°869	61372	12	4°693	14°893	61446	8	4°243	16°912	61520	14	24°736	17°676
61225	19	6°452	10°168	61299	18	7°823	12°620	61373	11	4°846	14°931	61447	9	4°681	16°776	61521	6	25°448	17°360
61226	10	7°670	10°177	61300	19	8°071	12°358	61374*	30	6°192	14°272	61448*	37	5°094	16°475	61522	7	25°866	17°939
61227	12	8°266	10°971	61301	9	8°183	12°953	61375	7	6°554	14°084	61449*	31	5°910	16°650	61523	8	0°666	18°037
61228	16	8°399	10°796	61302	12	8°198	12°477	61376	14	7°155	14°466	61450	9	5°968	16°281	61524	8	2°069	18°694
61229	12	9°165	10°015	61303	7	8°729	12°335	61377	11	7°739	14°509	61451	17	6°554	16°572	61525	7	2°465	18°472
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61231	7	11°467	10°275	61305	20	9°138	12°405	61379	7	9°522	14°657	61453	21	7°210	16°254	61527	9	2°641	18°007
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61233*	54	13°652	10°583	61307	12	9°905	12°532	61381	7	11°594	14°649	61455*	40	8°758	16°682	61529	21	2°928	18°141
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61237	11	15°726	10°666	61311	23	11°623	12°525	61385	19	13°520	14°748	61459	12	10°993	16°003	61533	16	4°491	18°682
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61240	11	17°237	10°656	61314	7	13°114	12°413	61388	11	14°504	14°756	61462	14	14°053	16°499	61536	6	7°532	18°363
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61245	23	24°376	10°033	61319	6	18°418	12°373	61393	10	21°248	14°115	61467	20	23°553	16°745	61541	6	11°706	18°749
61246	19	25°515	10°615	61320	14	18°933	12°544	61394	7	23°513	14°583	61468	10	24°045	16°005	61542	9	12°144	18°478
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61252	12	3°570	11°862	61326*	25	2°463	13°707	61400	9	3°598	15°622	61474	11	1°724	17°515	61548	6	18°707	18°132
61253	7	5°056	11°776	61327	6	2°940	13°858	61401	8	3°700	15°501	61475	12	2°069	17°055	61549	8	18°734	18°081
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61255	13	5°399	11°581	61329	6	6°292	13°194	61403	11	5°394	15°300	61477	12	2°235	17°605	61551	21	19°841	18°054
61256	7	6°771	11°178	61330	6	6°348	13°759	61404	19	5°503	15°645	61478	30	2°377	17°224	61552	6	20°293	18°195
61257*	50	6°947	11°388	61331*	41	6°672	13°034	61405	12	6°554	15°153	61479	12	3°238	17°794	61553	8	22°864	18°901
61258	11	7°987	11°151	61332	14	7°868	13°833	61406	20	6°688	15°332	61480	13	3°419	17°465	61554	21	23°545	18°163
61259	8	8°593	11°386	61333	16	8°093	13°551	61407	14	7°065	15°315	61481	7	4°684	17°648	61555	26	1°316	19°666
61260	20	9°159	11°896	61334	6	8°145	13°785	61408	6	7°146	15°633	61482	13	5°795	17°662	61556*	29	3°057	19°455
61261	17	9°588	11°655	61335	8	8°284	13°175	61409	13	7°245	15°801	61483	14	6°340	17°956	61557	25	4°305	19°379
61262	17	9°950	11°800	61336	14	8°582	13°216	61410	9	7°363	15°856	61484	9	7°253	17°976	61558*	42	5°232	19°282
61263	10	10°059	11°644	61337	14	8°745	13°642	61411	23	8°046	15°481	61485	8	8°211	17°384	61559*	37	5°623	19°314
61264	29	10°163	11°888	61338	8	8°895	13°444	61412	8	8°076	15°782	61486	6	8°303	17°045	61560	7	6°097	19°741
61265	14	10°577	11°882	61339	21	9°093	13°016	61413	12	8°275	15°704	61487*	30	8°497	17°928	61561	10	6°823	19°543
61266	15	10°959	11°252	61340	15	9°665	13°572	61414	20	8°477	15°403	61488	13	8°774	17°956	61562	8	8°555	19°338
61267	18	11°360	11°575	61341	14	9°683	13°353	61415	9	9°392	15°266	61489	16	9°403	17°358	61563	8	8°593	19°063
61268	16	12°874	11°715	61342	17	9°772	13°127	61416	20	10°071	15°60								

61576	30	15°165	19°838	61650	9	0°679	22°172	61724	8	4°277	25°027	61826	8	20°962	0°663	61900	9	22°180	2°482
61577	11	16°466	19°227	61651	8	5°641	22°261	61725	22	4°325	25°392	61827	10	21°485	0°655	61901	13	24°558	2°938
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61580	11	19°847	19°167	61654	12	6°433	22°986	61728	12	7°843	25°694	61830	10	23°189	0°354	61904	10	1°186	3°771
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61582	9	20°562	19°285	61656	15	7°040	22°199	61730	13	11°164	25°685	61832	10	23°405	0°336	61906	11	2°604	3°404
61583	9	20°826	19°278	61657	7	7°672	22°324	61731*	41	11°985	25°114	61833	11	25°261	0°411	61907	10	3°441	3°750
61584	10	22°822	19°657	61658	8	8°672	22°594	61732	23	12°230	25°869	61834	13	25°380	0°280	61908	22	4°260	3°597
61585	10	24°274	19°005	61659	7	9°436	22°701	61733	7	13°655	25°658	61835	10	25°689	0°950	61909	11	5°810	3°838
61586	11	24°395	19°262	61660	11	10°524	22°100	61734	6	14°527	25°926	61836	22	3°756	1°676	61910	12	7°363	3°036
61587	12	25°695	19°561	61661	16	12°525	22°996	61735	11	14°866	25°877	61837	11	4°699	1°528	61911	13	7°894	3°347
61588	15	0°337	20°257	61662	8	16°682	22°197	61736	15	15°511	25°469	61838	30	5°555	1°025	61912	22	7°937	3°476
61589	16	3°336	20°693	61663	20	17°181	22°742	61737	6	15°653	25°868	61839	21	6°920	1°930	61913	12	7°973	3°521
61590	10	3°581	20°574	61664*	40	18°146	22°597	61738	7	16°386	25°941	61840	23	7°174	1°998	61914	21	7°989	3°595
61591	13	3°784	20°905	61665	26	18°230	22°953	61739	7	16°549	25°402	61841	11	7°624	1°441	61915	10	8°290	3°866
61592	19	6°804	20°061	61666	7	20°121	22°060	61740	19	16°613	25°581	61842	12	8°836	1°230	61916	13	8°605	3°080
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61594	10	9°045	20°655	61668	11	22°565	22°841	61742	9	16°986	25°363	61844	13	10°083	1°155	61918	11	9°301	3°494
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61596	6	13°957	20°198	61670	12	23°407	22°631	61744	16	17°288	25°996	61846	10	10°267	1°450	61920	11	9°750	3°601
61597	21	14°624	20°593	61671	12	23°498	22°366	61745	8	17°421	25°383	61847	12	10°953	1°450	61921	13	13°138	3°331
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61599	8	16°271	20°606	61673	9	4°427	23°406	61747	16	19°675	25°285	61849	12	12°254	1°560	61923	15	13°400	3°245
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61603	8	17°545	20°246	61677	8	7°679	23°291					61853	10	14°780	1°336	61927	12	16°081	3°596
61604	14	18°400	20°325	61678	7	8°142	23°617					61854	10	14°894	1°241	61928	11	16°830	3°857
61605	15	18°928	20°807	61679	10	9°583	23°619					61855	12	15°606	1°716	61929	12	17°376	3°628
61606	12	18°985	20°873	61680	9	9°818	23°474					61856	11	15°895	1°211	61930	14	17°411	3°600
61607	9	19°364	20°398	61681	25	10°787	23°093					61857	10	16°689	1°095	61931	10	17°986	3°533
61608	11	19°437	20°672	61682	7	11°298	23°436					61858	13	17°055	1°196	61932	12	18°180	3°341
61609	8	19°656	20°027	61683	7	11°356	23°431					61859*	40	17°139	1°340	61933	12	18°312	3°310
61610	26	20°624	20°473	61684	16	11°389	23°399					61860	22	18°048	1°402	61934	10	18°743	3°198
61611	27	20°907	20°591	61685	6	12°417	23°742					61861	12	18°834	1°050	61935	10	19°280	3°970
61612	10	23°320	20°237	61686	13	12°427	23°195					61862	11	18°907	1°108	61936	9	19°727	3°484
61613	12	23°934	20°824	61687	16	12°438	23°270					61863	10	19°981	1°390	61937	12	19°830	3°587
61614	9	24°528	20°527	61688	6	12°699	23°961					61864	9	21°300	1°629	61938	18	20°330	3°280
61615	12	24°586	20°823	61689	6	12°872	23°687					61865	11	22°929	1°879	61939	23	20°886	3°399
61616	24	24°601	20°845	61690	13	14°890	23°214					61866	20	24°962	1°728	61940	15	21°655	3°878
61617	17	24°931	20°042	61691	14	16°615	23°852					61867	22	0°021	2°151	61941	18	23°602	3°734
61618	12	1°767	21°222	61692	12	17°686	23°898					61868	11	0°243	2°329	61942	12	0°817	4°637
61619	14	2°704	21°365	61693	13	18°047	23°692					61869	15	1°200	2°388	61943	10	0°826	4°335
61620	12	3°393	21°784	61694	10	19°130	23°414					61870	15	1°716	2°232	61944	15	0°873	4°771
61621	9	3°764	21°139	61695	14	19°145	23°406					61871	28	2°224	2°140	61945	15	1°433	4°911
61622	10	3°803	21°063	61696	12	19°715	23°377					61872	12	3°749	2°107	61946	10	1°545	4°742
61623	9	5°249	21°004	61697	15	21°938	23°061					61873	12	3°939	2°190	61947	14	4°211	4°829
61624	9	5°411	21°728	61698	6	23°664	23°005					61874	14	3°986	2°880	61948	12	5°965	4°275
61625	12	7°982	21°708	61699	24	1°335	24°618					61875	11	4°250	2°690	61949	10	6°621	4°961
61626	8	8°615	21°132	61700	7	4°213	24°274					61876	12	4°261	2°900	61950	21	7°029	4°748
61627	10	10°594	21°137	61701	9	4°943	24°707					61877	20	6°146	2°269	61951	22	9°765	4°453
61628	20	12°271	21°619	61702	14	6°089	24°954					61878	11	6°804	2°433	61952	10	13°622	4°812
61629	9	12°334	21°503	61703	11	6°264	24°899					61879	11	8°175	2°104	61953	13	14°119	4°659
61630	12	12°424	21°082	61704*	61	6°351	24°013					61880	15	9°311	2°729	61954	11	14°466	4°879
61631	6	12°615	21°902	61705	8	6°574	24°377					61881	10	9°958	2°467	61955	12	14°607	4°311
61632	19	12°735	21°602	61706	26	7°775	24°646					61882	10	12°155	2°386	61956	14	14°665	4°290
61633	12	12°982	21°167	61707	13	9°797	24°167					61883	12	13°612	2°044	61957	25	15°411	4°579
61634	17	13°298	21°652	61708	26	9°870	24°023					61884	27	13°769	2°387	61958	10	15°700	4°922
61635	12	13°686	21°192	61709	6	10°592	24°506					61885	10	14°329	2°481	61959	11	17°527	4°407
61636	16	13°994	21°914	61710	21	11°375	24°668					61886	10	14°671	2°274	61960	12	18°860	4°308
61637	7	14°090	21°121	61711	10	11°976	24°072					61887	12	14°692	2°494	61961	15	18°862	4°988
61638	12	14°126	21°575	61712	24	14°609	24°887					61888	10	15°510	2°747	61962	10	19°081	4°844
61639	11	16°015	21°925	61713	8	19°134	24°695					61889	10	16°074	2°833	61963	25	19°638	4°819
61640	14	18°064	21°197	61714	10	19°627	24°255					61890	13	17°524	2°824	61964	10	19°857	4°432
61641	7	18°206	21°243	61715	14	20°654	24°377					61891	11	18°298	2°900	61965	10	20°026	4°260
61642	11	18°796	21°146	61716	7	20°927	24°427					61892	22	18°378	2°810	61966	11	20°173	4°176
61643	12	19°947	21°394	61717	6	21°633	24°25												

61974	12	2°235	5°368	62048	24	3°183	7°281	62122	11	9°021	9°336	62196	9	3°725	11°349	62270	17	11°640	13°633
61975	13	2°321	5°842	62049	10	4°061	7°206	62123	15	11°483	9°619	62197	11	3°791	11°017	62271*	24	11°658	13°103
61976	10	3°740	5°442	62050	14	4°567	7°555	62124	13	13°344	9°893	62198	15	3°978	11°029	62272	11	12°374	13°511
61977	13	5°175	5°525	62051	9	7°041	7°824	62125	12	14°371	9°067	62199	11	4°041	11°760	62273*	39	12°958	13°651
61978	13	6°229	5°646	62052	12	7°160	7°799	62126	22	14°510	9°139	62200	10	4°524	11°166	62274	12	13°180	13°193
61979	12	7°068	5°281	62053	22	8°787	7°501	62127	11	14°965	9°777	62201	9	4°784	11°812	62275	21	13°355	13°955
61980*	34	7°200	5°330	62054	15	10°744	7°676	62128	13	18°240	9°262	62202	10	5°206	11°941	62276*	32	14°604	13°671
61981	10	7°734	5°956	62055	12	11°638	7°100	62129	15	18°960	9°190	62203	13	6°309	11°611	62277	12	15°812	13°264
61982	22	9°064	5°341	62056	13	12°470	7°930	62130	11	19°516	9°056	62204	10	6°368	11°950	62278	12	17°041	13°830
61983*	32	9°609	5°211	62057	22	13°647	7°924	62131	13	19°541	9°087	62205	19	9°953	11°691	62279*	25	18°285	13°623
61984	10	10°167	5°291	62058*	30	13°928	7°211	62132	22	19°560	9°101	62206	33	11°207	11°529	62280	15	19°661	13°267
61985	22	11°089	5°586	62059	10	14°221	7°480	62133	11	19°729	9°340	62207	12	11°367	11°606	62281	10	19°767	13°241
61986	14	11°299	5°580	62060	11	14°820	7°728	62134	13	20°452	9°485	62208	31	19°062	11°044	62282*	24	19°829	13°652
61987	12	13°040	5°350	62061	12	16°205	7°705	62135	9	20°655	9°714	62209	10	19°119	11°651	62283	13	19°934	13°624
61988	14	13°985	5°939	62062	11	16°373	7°069	62136	10	21°216	9°702	62210	10	20°123	11°476	62284*	37	20°650	13°337
61989	11	13°990	5°763	62063	11	18°320	7°398	62137	12	21°639	9°699	62211	21	20°551	11°557	62285	10	21°169	13°511
61990	13	14°692	5°318	62064	28	19°611	7°190	62138	12	23°417	9°533	62212	22	21°029	11°769	62286	9	22°211	13°706
61991	10	14°839	5°285	62065	10	20°064	7°841	62139	10	23°699	9°020	62213	10	22°938	11°823	62287	10	22°810	13°277
61992	10	16°162	5°350	62066	12	20°131	7°471	62140	23	23°930	9°423	62214*	32	23°607	11°296	62288	13	22°945	13°105
61993	15	16°228	5°276	62067	11	20°411	7°766	62141	9	24°675	9°268	62215	22	25°388	11°148	62289	10	23°044	13°313
61994	15	17°369	5°970	62068	12	20°584	7°525	62142	10	24°901	9°857	62216	12	25°571	11°979	62290	10	23°280	13°544
61995	10	17°740	5°211	62069	10	21°451	7°140	62143	13	25°007	9°824	62217	10	3°331	12°106	62291	16	23°631	13°420
61996	11	17°770	5°028	62070	11	21°792	7°827	62144	10	25°045	9°366	62218	11	3°806	12°032	62292*	22	23°650	13°306
61997	10	17°814	5°699	62071	10	21°938	7°681	62145	22	25°614	9°275	62219	9	4°445	12°593	62293	11	23°655	13°294
61998	30	18°048	5°163	62072	12	22°111	7°326	62146	10	25°670	9°621	62220	10	5°615	12°250	62294*	22	24°381	13°557
61999	10	18°109	5°950	62073	22	22°824	7°925	62147	12	25°806	9°078	62221	10	6°909	12°868	62295	13	0°983	14°979
62000	9	18°116	5°760	62074	10	23°285	7°695	62148	12	0°287	10°997	62222	12	7°340	12°152	62296	11	1°807	14°404
62001	27	19°014	5°171	62075	22	24°121	7°509	62149	10	0°417	10°387	62223	13	8°861	12°079	62297	11	2°398	14°901
62002	13	19°559	5°461	62076	9	24°216	7°879	62150	13	0°893	10°488	62224*	40	9°341	12°082	62298	16	3°427	14°260
62003	12	19°759	5°869	62077	10	24°291	7°259	62151	11	0°975	10°910	62225	10	9°400	12°181	62299	9	3°611	14°563
62004	10	19°949	5°895	62078	10	24°827	7°927	62152	11	2°084	10°670	62226	12	10°055	12°938	62300	10	3°822	14°459
62005	13	20°162	5°782	62079	10	25°089	7°748	62153	10	3°189	10°609	62227	12	10°630	12°891	62301	13	4°966	14°155
62006	12	20°507	5°171	62080	10	25°789	7°949	62154	22	3°792	10°427	62228*	23	10°633	12°998	62302	10	7°175	14°071
62007	24	22°615	5°125	62081	9	1°607	8°294	62155	12	4°666	10°821	62229*	30	11°089	12°617	62303*	38	7°727	14°500
62008	13	22°650	5°140	62082	15	1°634	8°901	62156	10	5°396	10°912	62230*	32	11°311	12°080	62304	17	8°066	14°000
62009	10	23°680	5°471	62083	13	1°968	8°437	62157	11	5°406	10°811	62231	12	11°398	12°944	62305	10	8°350	14°631
62010	12	24°489	5°188	62084	13	2°649	8°313	62158	9	5°591	10°202	62232	10	11°670	12°113	62306	13	9°190	14°838
62011	13	25°090	5°669	62085	12	2°889	8°164	62159	12	5°720	10°696	62233*	43	11°916	12°322	62307	20	9°484	14°120
62012*	42	25°505	5°076	62086	10	5°529	8°472	62160	12	5°889	10°447	62234	21	12°286	12°472	62308	12	11°268	14°576
62013	12	0°533	6°440	62087	13	5°946	8°889	62161	10	6°774	10°431	62235	12	13°425	12°933	62309	25	11°382	14°911
62014	10	1°242	6°122	62088*	27	6°072	8°263	62162	11	7°043	10°290	62236	11	13°450	12°066	62310	13	12°015	14°101
62015	12	1°312	6°662	62089	13	6°767	8°713	62163	11	8°416	10°975	62237	11	13°527	12°717	62311	18	12°585	14°416
62016	10	2°400	6°335	62090	11	6°844	8°232	62164	12	8°811	10°323	62238*	35	13°694	12°105	62312	12	13°771	14°744
62017	14	2°795	6°304	62091	11	7°905	8°272	62165	10	9°089	10°522	62239	13	14°340	12°436	62313	21	14°695	14°900
62018	13	3°873	6°894	62092	12	8°906	8°477	62166*	42	9°850	10°619	62240	18	14°550	12°170	62314	13	16°230	14°956
62019	12	6°711	6°473	62093	22	9°624	8°197	62167	21	10°314	10°543	62241	22	15°413	12°959	62315	12	16°329	14°270
62020	13	7°457	6°095	62094	12	13°662	8°858	62168	22	10°329	10°571	62242	12	15°715	12°566	62316	12	18°310	14°279
62021	12	7°564	6°188	62095	13	16°547	8°881	62169*	42	13°537	10°988	62243	10	15°998	12°478	62317	10	18°515	14°720
62022*	33	10°250	6°326	62096	22	16°964	8°437	62170	19	13°566	10°850	62244	11	16°111	12°569	62318	25	19°823	14°395
62023	12	10°924	6°943	62097	10	16°994	8°333	62171	9	13°582	10°921	62245	11	16°517	12°844	62319	12	20°235	14°895
62024	14	11°024	6°606	62098	11	19°455	8°311	62172*	41	13°769	10°233	62246	12	16°984	12°336	62320	19	21°060	14°611
62025	12	12°122	6°800	62099	10	20°021	8°485	62173	30	13°799	10°229	62247	13	17°363	12°672	62321	10	21°098	14°364
62026	13	12°316	6°050	62100	13	20°915	8°682	62174	29	13°870	10°588	62248*	25	19°170	12°982	62322	16	22°285	14°983
62027*	40	12°683	6°977	62101	10	21°363	8°956	62175	32	14°490	10°177	62249	18	19°935	12°834	62323*	32	24°183	14°940
62028	12	13°506	6°494	62102	10	21°522	8°371	62176*	42	14°628	10°574	62250	12	21°565	12°473	62324	10	24°454	14°949
62029	22	14°238	6°670	62103	11	21°630	8°860	62177	12	14°939	10°362	62251*	30	21°676	12°814	62325	12	25°010	14°606
62030	10	14°419	6°180	62104	13	21°641	8°299	62178	12	15°396	10°839	62252	10	23°709	12°972	62326	10	25°016	14°909
62031	25	15°297	6°467	62105	12	21°722	8°476	62179	13	16°661	10°180	62253	12	24°118	12°277	62327	22	25°250	14°891
62032	10	15°369	6°959	62106	12	22°539	8°877	62180	11	16°776	10°066	62254	12	25°189	12°166	62328	13	1°415	15°581
62033	13	16°640	6°500	62107	10	22°547	8°081	62181*	42	17°331	10°414	62255	10	2°522	13°683	62329	10	1°730	15°557
62034	22	17°207	6°431	62108	21	23°520	8°128	62182	21	18°237	10°410	62256	13	2°791	13°062	62330	12	2°350	15°820
62035	10	17°357	6°055	62109	10	23°805	8°841	62183	13	19°680	10°152	62257	14	3°100	13°420	62331*	32	3°087	15°411
62036*	53	17°629	6°757	62110	12	24°188	8°040	62184	10										

62344	13	13°552	15°938	62418	12	19°097	17°320	62492	10	4°825	20°100	62566	12	8°260	22°443	62640	10	20°980	23°817
62345*	42	15°736	15°380	62419	10	19°385	17°968	62493	10	5°960	20°482	62567*	36	9°417	22°747	62641*	31	21°687	23°191
62346	11	15°887	15°589	62420	15	20°930	17°461	62494	11	7°300	20°097	62568	11	9°846	22°184	62642	10	23°700	23°151
62347	13	16°081	15°100	62421	10	21°349	17°285	62495	10	7°989	20°750	62569*	27	10°193	22°691	62643	13	24°901	23°629
62348	12	16°540	15°338	62422	9	21°381	17°306	62496	13	8°187	20°017	62570*	31	10°321	22°350	62644*	31	24°992	23°061
62349	22	17°136	15°899	62423	10	21°644	17°970	62497	11	8°909	20°984	62571	12	10°481	22°110	62645*	21	25°136	23°606
62350	11	22°054	15°599	62424	10	22°066	17°240	62498*	28	9°320	20°664	62572	13	10°846	22°128	62646	11	25°488	23°044
62351	22	22°837	15°173	62425	22	24°454	17°282	62499	9	9°834	20°800	62573	10	11°012	22°461	62647	10	25°724	23°687
62352	9	22°930	15°238	62426*	33	24°667	17°998	62500	9	10°689	20°761	62574	13	11°476	22°411	62648	32	1°417	24°648
62353	12	24°405	15°710	62427*	25	25°361	17°360	62501	13	10°740	20°530	62575	10	11°582	22°961	62649	16	4°029	24°854
62354	13	1°863	16°564	62428	9	1°182	18°728	62502	9	10°860	20°397	62576	9	12°186	22°320	62650	12	6°075	24°717
62355	11	2°500	16°872	62429	10	2°393	18°383	62503	16	11°031	20°959	62577	10	12°289	22°860	62651	13	6°399	24°959
62356	13	2°835	16°939	62430	11	2°555	18°370	62504	10	12°126	20°214	62578	10	12°470	22°111	62652	12	7°252	24°586
62357	13	3°110	16°751	62431	12	2°594	18°822	62505	13	12°953	20°893	62579	10	13°723	22°197	62653	10	7°300	24°290
62358	12	3°313	16°771	62432	22	4°425	18°343	62506	13	13°077	20°862	62580	10	14°908	22°086	62654	12	8°813	24°880
62359	9	3°600	16°591	62433	13	5°348	18°668	62507	10	13°825	20°480	62581	13	15°747	22°373	62655	10	10°429	24°150
62360	11	3°784	16°386	62434	12	5°514	18°649	62508	11	13°921	20°262	62582	10	15°839	22°928	62656	9	10°874	24°284
62361	10	4°914	16°197	62435	10	6°937	18°551	62509	13	15°171	20°218	62583	10	16°053	22°724	62657	10	10°983	24°636
62362	18	5°419	16°366	62436	10	7°391	18°487	62510	10	15°237	20°831	62584	10	16°893	22°102	62658	13	11°140	24°798
62363	10	5°940	16°539	62437	9	7°639	18°894	62511	11	15°830	20°153	62585	10	16°905	22°336	62659	10	11°892	24°110
62364	11	6°711	16°766	62438	9	7°720	18°810	62512	13	17°304	20°301	62586	10	17°382	22°834	62660	12	12°776	24°705
62365	16	6°713	16°675	62439	12	7°850	18°872	62513	12	18°615	20°450	62587*	42	17°831	22°396	62661	9	12°900	24°605
62366	12	7°170	16°128	62440	9	8°022	18°229	62514	10	19°215	20°880	62588	22	18°414	22°525	62662	10	13°040	24°240
62367	9	7°269	16°150	62441	12	8°539	18°569	62515	11	19°875	20°555	62589	10	18°581	22°728	62663	10	13°177	24°861
62368	9	7°594	16°064	62442	11	8°542	18°761	62516	11	20°459	20°300	62590	12	18°862	22°711	62664	10	13°655	24°510
62369	10	7°765	16°676	62443	9	9°437	18°000	62517	19	21°009	20°943	62591	17	18°934	22°903	62665	12	13°715	24°920
62370	10	10°535	16°881	62444	23	9°520	18°075	62518	12	22°770	20°330	62592	10	19°746	22°890	62666	10	15°518	24°220
62371*	42	12°594	16°779	62445*	32	11°879	18°575	62519	17	2°196	21°305	62593	12	20°271	22°861	62667*	38	15°980	24°059
62372*	42	16°245	16°806	62446	12	14°650	18°138	62520	12	2°879	21°133	62594	24	20°317	22°159	62668	9	16°024	24°639
62373	17	17°243	16°650	62447	11	14°960	18°215	62521	18	3°991	21°727	62595	13	23°614	22°859	62669	12	16°294	24°407
62374	21	17°810	16°989	62448	12	15°382	18°027	62522	10	4°059	21°651	62596	12	24°394	22°511	62670	9	16°920	24°092
62375	9	18°827	16°919	62449	10	15°770	18°330	62523	9	4°784	21°211	62597	12	2°194	23°390	62671	10	17°089	24°363
62376	10	18°874	16°490	62450	13	18°350	18°325	62524	11	4°841	21°094	62598	11	2°363	23°377	62672	12	17°320	24°797
62377	13	19°500	16°204	62451	12	18°861	18°589	62525	22	5°933	21°200	62599	17	5°424	23°567	62673	13	18°149	24°474
62378	10	19°601	16°938	62452	16	18°869	18°572	62526	12	8°166	21°639	62600	11	5°814	23°861	62674	13	18°270	24°409
62379	11	20°621	16°828	62453	10	19°266	18°982	62527	11	9°029	21°517	62601	13	6°092	23°056	62675	17	19°161	24°499
62380	12	22°313	16°606	62454	22	20°437	18°060	62528	10	9°129	21°020	62602	12	6°233	23°557	62676	13	19°714	24°960
62381*	28	22°891	16°381	62455	10	21°521	18°339	62529	11	9°409	21°302	62603	10	6°731	23°562	62677	11	20°010	24°540
62382	14	25°380	16°464	62456	10	21°750	18°230	62530	10	9°616	21°001	62604	22	7°074	23°702	62678	10	21°187	24°598
62383	10	25°411	16°321	62457	13	21°794	18°463	62531	10	10°678	21°717	62605*	48	7°203	23°015	62679	10	21°300	24°809
62384	10	25°426	16°230	62458	11	1°145	19°484	62532	9	10°723	21°215	62606	25	7°767	23°779	62680	10	21°604	24°734
62385*	31	25°459	16°222	62459	9	2°677	19°503	62533	14	10°831	21°885	62607	10	8°870	23°730	62681	9	21°919	24°409
62386	13	1°029	17°637	62460	13	2°714	19°078	62534	9	10°868	21°849	62608	11	8°979	23°963	62682	10	22°424	24°655
62387	14	1°861	17°984	62461	15	3°256	19°855	62535	9	11°518	21°513	62609	10	9°621	23°100	62683*	20	22°497	24°924
62388	13	1°869	17°393	62462	13	4°019	19°371	62536	10	12°202	21°790	62610	10	10°106	23°650	62684	11	23°067	24°671
62389*	43	1°942	17°474	62463	10	4°371	19°721	62537	13	12°349	21°590	62611	21	10°158	23°114	62685	11	23°376	24°037
62390	15	2°364	17°107	62464	9	4°541	19°956	62538	10	13°793	21°689	62612	10	10°364	23°381	62686	29	23°728	24°501
62391	10	2°555	17°440	62465	8	5°948	19°390	62539	12	14°645	21°590	62613	21	10°642	23°969	62687*	37	23°768	24°472
62392	21	2°690	17°142	62466	10	6°475	19°566	62540	12	14°746	21°771	62614	21	11°271	23°991	62688	12	23°950	24°610
62393	12	3°052	17°493	62467*	41	7°244	19°944	62541	19	14°801	21°368	62615	19	11°579	23°874	62689	16	24°009	24°677
62394	10	3°759	17°171	62468	11	8°141	19°686	62542	10	15°950	21°508	62616	13	11°968	23°109	62690	22	3°147	25°463
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62397	12	4°860	17°372	62471	10	10°236	19°512	62545*	42	19°305	21°939	62619	10	13°538	23°381	62693*	46	5°191	25°313
62398	11	4°881	17°421	62472	11	11°137	19°785	62546	17	21°022	21°730	62620	12	14°078	23°862	62694	11	6°353	25°144
62399	10	5°753	17°096	62473	10	11°226	19°766	62547	10	21°261	21°820	62621	10	14°379	23°519	62695	10	7°110	25°811
62400	13	5°790	17°831	62474*	52	12°001	19°997	62548	22	21°288	21°822	62622	9	14°560	23°518	62696	12	7°483	25°172
62401	11	6°020	17°870	62475	10	12°830	19°586	62549	13	22°489	21°709	62623	21	15°390	23°740	62697	13	9°298	25°190
62402	10	6°340	17°522	62476	11	13°453	19°990	62550	10	22°604	21°440	62624	9	15°871	23°029	62698	32	10°890	25°920
62403*	31	6°637	17°809	62477	9	14°279	19°099	62551	9	22°718	21°870	62625	20	16°260	23°058	62699	22	11°000	25°658
62404	10	6°884	17°184	62478*	32	17°612	19°756	62552	12	23°784	21°950	62626	10	16°414	23°997	62700	12	11°154	25°914
62405	11	7°675	17°501	62479	13	18°815	19°140	62553	12	24°505	21°096	62627	17	16°498	23°690	62701	11	11°43	

62714	12	16°795	25°701	62832	7	12°304	1°809	62906	19	7°823	4°583	62980	14	16°957	6°480	63054	5	22°993	8°614
62715	12	17°618	25°562	62833	14	12°493	1°645	62907	6	8°127	4°432	62981	17	16°989	6°019	63055	28	23°866	8°373
62716	11	17°633	25°670	62834	18	12°608	1°848	62908	8	8°324	4°716	62982	14	17°942	6°606	63056	12	24°091	8°880
62717	10	17°682	25°053	62835	20	15°322	1°141	62909	11	11°908	4°412	62983	23	18°051	6°789	63057	13	24°343	8°616
62718	11	17°791	25°810	62836*	32	15°740	1°728	62910	24	12°123	4°380	62984	7	18°264	6°290	63058	19	25°304	8°118
62719	11	18°279	25°341	62837	7	16°497	1°114	62911	23	13°699	4°318	62985	12	18°431	6°320	63059	25	1°071	9°930
62720	11	18°349	25°439	62838	23	16°734	1°686	62912	11	16°067	4°107	62986	18	18°587	6°871	63060	7	1°209	9°345
62721	14	18°426	25°800	62839	15	16°780	1°387	62913	8	16°093	4°094	62987	11	19°327	6°203	63061	24	1°721	9°227
62722	10	20°828	25°189	62840	8	17°755	1°848	62914	13	16°138	4°443	62988	18	20°561	6°916	63062	16	2°802	9°604
62723*	25	21°144	25°531	62841	6	19°154	1°980	62915	21	16°246	4°302	62989	6	20°932	6°963	63063	22	3°400	9°048
62724	12	21°171	25°740	62842	14	19°318	1°735	62916	7	16°258	4°140	62990	13	21°093	6°181	63064	16	7°134	9°801
62725	10	21°302	25°870	62843	19	20°827	1°989	62917	18	18°034	4°617	62991	12	23°010	6°950	63065	11	8°179	9°688
62726	11	21°610	25°277	62844	15	21°091	1°563	62918	8	18°958	4°469	62992	24	23°123	6°369	63066	14	8°995	9°360
62727	13	22°177	25°461	62845	9	21°417	1°969	62919	5	19°186	4°507	62993	8	23°818	6°150	63067	8	9°759	9°321
62728	10	22°189	25°361	62846	16	21°775	1°122	62920	14	19°531	4°577	62994	15	24°045	6°207	63068	23	10°262	9°680
62729	9	23°149	25°682	62847	8	21°791	1°451	62921	12	19°695	4°320	62995	30	25°611	6°228	63069	11	10°497	9°101
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62731	10	23°298	25°718	62849	6	2°229	2°730	62923	6	20°783	4°442	62997	19	1°287	7°936	63071	6	11°610	9°465
62732	12	23°503	25°229	62850	21	2°934	2°711	62924	22	21°133	4°540	62998	26	1°875	7°310	63072	7	13°336	9°420
62733*	60	24°486	25°984	62851	24	3°821	2°789	62925	13	21°402	4°889	62999	10	1°951	7°837	63073	6	14°122	9°097
				62852	14	3°888	2°962	62926	21	22°157	4°714	63000	5	3°557	7°715	63074	12	14°877	9°978
				62853	7	3°975	2°785	62927	12	22°364	4°939	63001	8	4°610	7°511	63075	19	15°640	9°059
				62854	15	5°454	2°514	62928	17	22°462	4°722	63002	26	4°612	7°068	63076	13	17°198	9°036
				62855	20	6°153	2°100	62929	5	25°520	4°605	63003	15	4°834	7°449	63077	13	17°556	9°222
				62856	12	7°811	2°185	62930	12	0°885	5°951	63004	13	5°290	7°942	63078	10	18°035	9°079
				62857	7	8°549	2°910	62931	19	2°811	5°433	63005	10	7°100	7°749	63079	5	19°596	9°958
				62858	14	9°947	2°977	62932	6	5°854	5°809	63006	9	7°829	7°722	63080	13	20°239	9°665
				62859	7	10°961	2°121	62933	8	6°116	5°985	63007*	31	7°978	7°706	63081	8	20°976	9°481
				62860	18	11°221	2°570	62934	11	6°117	5°618	63008	16	8°893	7°424	63082*	31	21°033	9°576
				62861	12	12°780	2°847	62935*	48	9°548	5°142	63009	15	10°172	7°207	63083	11	21°672	9°380
				62862	11	14°043	2°978	62936	7	10°527	5°117	63010	18	10°853	7°796	63084	16	22°591	9°558
				62863	22	15°999	2°204	62937	12	11°188	5°577	63011	7	12°089	7°663	63085*	39	23°882	9°898
				62864	9	16°552	2°644	62938	13	13°034	5°956	63012	5	12°515	7°014	63086*	29	24°243	9°321
				62865	21	16°910	2°115	62939	9	13°522	5°027	63013	13	12°586	7°249	63087*	46	24°457	9°329
				62866	10	17°691	2°953	62940	8	13°770	5°870	63014	12	13°699	7°426	63088	15	24°640	9°705
				62867	8	17°987	2°966	62941	14	14°198	5°891	63015	12	14°055	7°431	63089	8	25°466	9°770
				62868	13	19°410	2°950	62942	7	14°431	5°687	63016	23	14°518	7°734	63090	6	25°916	9°439
				62869	19	20°068	2°312	62943	13	14°443	5°241	63017	8	15°016	7°550	63091	22	3°208	10°923
				62870	22	21°515	2°009	62944	19	15°051	5°815	63018	13	15°669	7°724	63092	12	4°013	10°129
				62871	23	25°341	2°185	62945	7	16°083	5°443	63019	17	15°778	7°066	63093	13	4°304	10°747
				62872	15	1°289	3°541	62946	8	16°205	5°176	63020	5	15°940	7°200	63094	7	5°585	10°538
				62873	6	3°849	3°667	62947*	29	16°651	5°945	63021	12	16°054	7°932	63095	18	6°027	10°007
				62874	7	3°899	3°481	62948	11	17°353	5°650	63022	6	16°181	7°093	63096	11	6°850	10°774
				62875*	24	5°230	3°575	62949	14	17°798	5°831	63023	7	17°378	7°428	63097	8	7°631	10°785
				62876	16	7°598	3°141	62950	13	18°343	5°380	63024	21	17°488	7°890	63098	17	7°932	10°485
				62877	19	8°604	3°047	62951	9	18°384	5°160	63025	9	18°574	7°123	63099	19	11°201	10°953
				62878	9	9°257	3°395	62952	23	18°469	5°369	63026*	24	18°614	7°306	63100	13	11°484	10°164
				62879	6	10°251	3°804	62953	7	18°626	5°147	63027*	27	20°300	7°982	63101	12	11°786	10°008
				62880	14	10°577	3°450	62954	16	18°762	5°914	63028	7	21°110	7°461	63102*	32	12°342	10°029
				62881	17	11°843	3°149	62955	13	19°627	5°575	63029	9	21°659	7°606	63103	7	13°498	10°240
				62882	19	12°023	3°185	62956	10	19°636	5°904	63030	21	21°778	7°018	63104	20	17°001	10°857
				62883	7	12°445	3°777	62957	13	19°994	5°399	63031	17	22°980	7°099	63105	13	17°799	10°912
				62884	15	12°657	3°338	62958	18	20°013	5°123	63032	7	23°890	7°407	63106	7	18°276	10°601
				62885	7	13°759	3°981	62959	22	21°100	5°233	63033	15	24°398	7°954	63107	14	18°498	10°122
				62886	17	14°016	3°073	62960	11	21°963	5°192	63034	28	25°014	7°452	63108	10	18°576	10°936
				62887	21	14°430	3°461	62961	19	22°235	5°622	63035	20	25°275	7°039	63109	24	18°745	10°327
				62888	22	16°584	3°234	62962	14	24°227	5°296	63036	18	25°928	7°974	63110	15	18°832	10°028
				62889	23	18°807	3°751	62963	13	25°286	5°101	63037	13	0°316	8°703	63111	8	18°894	10°684
				62890	20	19°441	3°218	62964	19	25°549	5°140	63038	7	1°479	8°827	63112	9	19°000	10°035
				62891	11	19°716	3°084	62965	8	25°716	5°722	63039	18	2°294	8°552	63113	17	19°157	10°060
				62892	18	20°610	3°205	62966	15	25°734	5°721	63040	8	3°111	8°359	63114	5	19°166	10°108
				62893	17	20°769	3°023	62967	16	4°790	6°712	63041							

63128	12	10°192	11°643	63202	12	23°065	13°938	63276	11	8°522	16°602	63350	18	23°562	18°876	63424	8	15°668	21°401
63129	7	12°167	11°268	63203	17	23°436	13°829	63277	15	8°559	16°700	63351	17	23°894	18°740	63425	10	15°709	21°054
63130	6	12°895	11°210	63204	11	24°010	13°302	63278	12	9°091	16°089	63352	15	24°344	18°853	63426*	23	15°838	21°769
63131	18	14°243	11°589	63205	7	24°525	13°369	63279	10	9°168	16°452	63353*	21	24°516	18°652	63427	16	15°960	21°402
63132	18	14°697	11°501	63206	16	25°815	13°059	63280	11	9°329	16°661	63354	9	25°743	18°002	63428	13	16°449	21°834
63133	23	16°599	11°337	63207	21	0°176	14°819	63281	9	9°360	16°551	63355	14	25°913	18°008	63429	22	16°748	21°028
63134	16	17°236	11°980	63208	24	0°731	14°999	63282	14	10°117	16°383	63356	12	3°362	19°649	63430	8	18°410	21°632
63135*	37	18°095	11°816	63209*	27	2°071	14°740	63283	12	10°829	16°122	63357	16	7°877	19°956	63431	9	18°859	21°910
63136	13	18°534	11°565	63210	8	2°896	14°391	63284	17	10°903	16°333	63358	19	8°536	19°699	63432	9	19°125	21°845
63137*	55	19°242	11°407	63211	6	2°907	14°693	63285	11	11°548	16°827	63359	6	8°549	19°609	63433	16	19°443	21°742
63138	6	19°572	11°792	63212	22	3°141	14°650	63286	8	13°466	16°714	63360	15	9°223	19°243	63434	6	19°569	21°521
63139	17	19°637	11°267	63213	6	5°682	14°346	63287	14	17°109	16°244	63361	13	9°299	19°747	63435	11	20°619	21°326
63140	6	20°376	11°219	63214	9	6°173	14°957	63288	7	17°317	16°335	63362	11	9°752	19°335	63436	8	21°216	21°625
63141	5	20°854	11°718	63215	15	6°455	14°190	63289	16	17°436	16°684	63363	14	10°720	19°301	63437	15	22°421	21°770
63142	17	21°129	11°859	63216	6	6°600	14°701	63290	7	17°808	16°424	63364*	58	11°351	19°120	63438	12	23°223	21°651
63143	6	21°863	11°181	63217	17	7°760	14°920	63291	6	18°436	16°745	63365	6	12°430	19°946	63439	5	24°257	21°649
63144	5	22°858	11°205	63218	17	9°111	14°262	63292	19	20°682	16°542	63366	15	12°699	19°019	63440*	23	24°512	21°216
63145	15	23°192	11°820	63219	16	10°848	14°292	63293	15	21°349	16°447	63367	15	13°296	19°786	63441*	23	24°987	21°284
63146	13	23°282	11°596	63220	13	12°750	14°101	63294	11	21°537	16°241	63368	11	13°401	19°028	63442	12	1°646	22°669
63147	17	0°801	12°926	63221	17	13°081	14°754	63295*	18	21°646	16°132	63369	13	16°069	19°426	63443	8	2°422	22°306
63148	8	1°562	12°780	63222	6	14°119	14°108	63296	11	22°294	16°798	63370	6	16°587	19°219	63444*	35	3°029	22°847
63149	12	1°958	12°078	63223	17	15°131	14°403	63297	18	22°748	16°037	63371	16	17°250	19°757	63445	10	3°526	22°820
63150	7	5°923	12°826	63224	17	15°638	14°379	63298	22	23°665	16°604	63372	7	17°914	19°864	63446	17	7°329	22°949
63151	6	6°894	12°067	63225*	22	16°688	14°071	63299	19	23°930	16°962	63373	9	17°996	19°976	63447	10	7°471	22°221
63152	16	6°915	12°960	63226	17	18°180	14°199	63300	15	24°280	16°076	63374	15	18°301	19°828	63448	6	8°056	22°666
63153	13	7°865	12°487	63227	6	19°200	14°663	63301	7	24°988	16°351	63375	19	18°859	19°546	63449	18	8°366	22°842
63154	10	8°293	12°089	63228	5	19°735	14°562	63302	14	25°409	16°918	63376	8	20°503	19°994	63450	11	8°419	22°571
63155	7	10°258	12°756	63229	16	20°371	14°654	63303	23	2°387	17°075	63377	17	22°410	19°718	63451	14	8°724	22°029
63156*	20	11°822	12°085	63230	6	20°405	14°880	63304*	30	2°614	17°789	63378	24	22°464	19°545	63452	6	9°605	22°269
63157*	17	13°358	12°912	63231	14	21°763	14°255	63305*	22	3°297	17°138	63379	8	23°705	19°045	63453	17	10°089	22°460
63158	12	14°037	12°376	63232	10	22°151	14°081	63306	9	3°986	17°952	63380	17	24°786	19°509	63454	9	10°380	22°136
63159	18	14°995	12°937	63233	11	22°368	14°976	63307	8	4°093	17°923	63381*	21	24°849	19°473	63455	12	11°016	22°139
63160*	23	16°261	12°309	63234*	51	22°378	14°401	63308	15	7°364	17°512	63382	19	25°414	19°739	63456	13	11°994	22°385
63161	12	16°283	12°305	63235	16	22°609	14°510	63309	17	8°300	17°844	63383	22	25°446	19°780	63457	10	12°011	22°637
63162	13	17°676	12°176	63236	17	23°930	14°875	63310	7	9°242	17°029	63384	10	0°759	20°156	63458	5	12°400	22°406
63163	16	18°348	12°641	63237	6	24°741	14°857	63311	18	11°988	17°630	63385	7	2°506	20°889	63459	14	12°486	22°013
63164	13	19°079	12°098	63238	17	25°570	14°186	63312	10	14°794	17°919	63386*	20	3°502	20°988	63460	14	13°291	22°178
63165	7	19°214	12°424	63239	19	25°673	14°153	63313	12	16°314	17°073	63387	17	6°117	20°961	63461	16	13°919	22°921
63166	17	19°979	12°680	63240	7	0°827	15°059	63314	11	16°693	17°339	63388	23	6°966	20°739	63462	8	14°716	22°923
63167	6	21°324	12°469	63241	10	2°310	15°506	63315	9	17°154	17°137	63389	14	8°474	20°643	63463	19	14°874	22°313
63168	14	21°993	12°733	63242	8	3°969	15°890	63316	15	17°519	17°490	63390	7	8°554	20°242	63464	7	16°173	22°002
63169	13	23°167	12°931	63243	18	4°542	15°740	63317	13	18°110	17°047	63391	11	9°395	20°158	63465*	23	16°224	22°194
63170	13	23°598	12°890	63244	13	5°151	15°200	63318	16	18°699	17°215	63392	5	10°950	20°093	63466	14	16°694	22°596
63171	12	24°397	12°031	63245	13	5°993	15°934	63319	9	22°046	17°763	63393	8	11°049	20°609	63467	8	18°506	22°539
63172	16	25°000	12°240	63246	10	6°267	15°600	63320	11	22°994	17°440	63394*	23	11°894	20°966	63468	10	19°109	22°172
63173	7	1°144	13°360	63247	6	8°004	15°169	63321	15	23°610	17°105	63395	14	11°973	20°412	63469*	23	19°221	22°563
63174	19	1°496	13°228	63248	10	10°299	15°649	63322	17	24°039	17°528	63396	13	14°087	20°903	63470	17	19°650	22°215
63175*	24	1°511	13°116	63249	13	10°780	15°331	63323	8	24°586	17°484	63397	15	14°462	20°483	63471	14	19°901	22°844
63176	9	1°517	13°101	63250	9	11°504	15°902	63324	21	25°627	17°605	63398	11	14°968	20°254	63472	13	20°504	22°541
63177*	21	2°244	13°351	63251*	22	13°099	15°240	63325	6	5°580	18°958	63399*	24	15°562	20°748	63473	17	20°507	22°446
63178	10	4°479	13°302	63252	7	14°093	15°941	63326	14	8°116	18°599	63400	7	15°971	20°756	63474	20	22°009	22°252
63179	5	4°507	13°334	63253	6	15°060	15°381	63327	8	8°423	18°412	63401*	26	16°028	20°812	63475	9	22°515	22°865
63180	15	7°173	13°178	63254	13	15°347	15°225	63328*	28	9°912	18°381	63402	11	17°823	20°567	63476	17	22°712	22°123
63181	9	7°838	13°382	63255*	20	15°600	15°337	63329	8	10°869	18°721	63403	15	17°880	20°495	63477	23	23°500	22°799
63182	10	7°922	13°222	63256	16	15°846	15°053	63330	15	12°165	18°520	63404	11	18°006	20°403	63478	5	23°630	22°484
63183	15	8°021	13°996	63257*	29	15°963	15°962	63331	18	12°327	18°991	63405*	24	18°768	20°229	63479	12	24°317	22°748
63184	13	8°526	13°885	63258	15	17°089	15°653	63332	20	12°855	18°504	63406	16	23°306	20°998	63480	9	24°962	22°471
63185	14	9°101	13°587	63259	6	20°124	15°804	63333	18	13°789	18°863	63407	14	0°502	21°542	63481	10	25°089	22°545
63186	8	9°783	13°569	63260	18	20°705	15°843	63334	12	14°024	18°146	63408	16	3°881	21°301	63482	9	2°951	23°417
63187*	23	11°141	13°099	63261	19	22°136	15°694	63335*	30	15°849	18°755	63409	6	5°610	21°684	63483*	18	3°184	23°386
63188	14	12°249	13°872	63262	23	22°137	15°555	63336*	19	17°455	18°766	63410	17	5°981	21°661	63484	6	5°907	23°893
63189	12	13°746	13°516	63263	12	22°638	15°958	63337	15	18°074	18°502	63411	8	7°805	21°522	63485	7	7°892	23°011
63190	6																		

63498	9	17.286	23.518	<div>R. A. 19^h 48^m</div> <div>Plate 1201; 1898 Aug. 11.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-00003 +00210 -0900</div> <div>D E F</div> <div>-00208 -00046 -6514</div> <div>Mag. = 15.3 - 1.25√d</div>	63657	6	16.201	2.730	63731	11	5.418	5.682	63805	17	15.962	7.540
63499	18	18.034	23.504		63658	5	16.688	2.793	63732	6	6.095	5.586	63806	13	17.707	7.800
63500	17	18.252	23.419		63659	8	17.956	2.324	63733	9	6.114	5.990	63807	7	18.677	7.979
63501	24	19.561	23.721		63660	7	18.284	2.787	63734	8	7.018	5.813	63808	8	19.500	7.326
63502	16	19.720	23.996		63661	8	18.465	2.433	63735	21	10.036	5.562	63809*	36	20.101	7.822
63503	17	19.833	23.751		63662	17	19.598	2.212	63736	11	10.677	5.415	63810	9	20.498	7.205
63504	9	20.071	23.428		63663	11	20.066	2.737	63737	10	11.518	5.334	63811	7	20.979	7.958
63505	6	20.269	23.370		63664	16	23.507	2.511	63738	17	12.193	5.817	63812	16	21.623	7.592
63506	12	21.998	23.296		63665	19	25.427	2.158	63739	14	12.499	5.848	63813	6	23.150	7.713
63507	14	22.278	23.403		63666	7	25.538	2.956	63740	6	14.184	5.334	63814	8	25.176	7.201
63508	5	22.844	23.389	63667	21	2.592	3.167	63741	11	14.593	5.662	63815	19	25.747	7.476	
63509	18	23.742	23.851	63668	6	3.484	3.294	63742	18	15.170	5.300	63816	8	2.669	8.481	
63510	16	25.254	23.368	63669	5	4.679	3.574	63743	12	15.434	5.679	63817*	22	2.825	8.923	
63511*	16	0.567	24.756	63670	18	4.887	3.873	63744	8	15.736	5.033	63818	11	2.916	8.214	
63512	23	1.788	24.311	63671*	23	5.851	3.527	63745	7	16.352	5.004	63819*	40	3.038	8.924	
63513*	34	1.829	24.280	63672	7	5.914	3.613	63746	6	16.817	5.929	63820	17	5.485	8.883	
63514	9	2.078	24.482	63673	6	6.310	3.392	63747	13	18.377	5.811	63821	7	5.747	8.988	
63515	24	4.741	24.901	63674	7	6.322	3.181	63748	12	20.046	5.648	63822	10	6.080	8.929	
63516	16	5.192	24.252	63675	12	7.979	3.823	63749	16	20.077	5.764	63823	14	6.126	8.121	
63517	19	9.189	24.830	63676	12	8.137	3.624	63750	13	21.575	5.427	63824	11	7.457	8.384	
63518	7	11.022	24.434	63677	11	8.646	3.026	63751	12	23.053	5.091	63825	13	8.109	8.412	
63519	13	11.150	24.879	63678	17	12.221	3.400	63752	15	24.006	5.257	63826	12	9.474	8.230	
63520	5	11.394	24.620	63679	5	12.409	3.121	63753	16	24.564	5.568	63827	11	9.554	8.293	
63521	17	11.557	24.144	63680	12	13.059	3.738	63754	14	25.544	5.516	63828	17	10.446	8.986	
63522	20	11.950	24.381	63681	14	13.514	3.778	63755	19	0.320	6.659	63829	11	12.375	8.115	
63523	12	13.234	24.204	63682	13	14.033	3.114	63756	15	1.525	6.718	63830	6	13.024	8.808	
63524	10	13.350	24.498	63683	6	15.460	3.167	63757	8	1.557	6.573	63831	19	14.039	8.814	
63525	13	14.369	24.674	63684	9	15.573	3.918	63758	16	3.822	6.626	63832	11	15.199	8.003	
63526	10	15.817	24.863	63685	25	19.775	3.767	63759	13	5.418	6.920	63833	7	15.732	8.736	
63527	7	17.420	24.132	63686	16	20.058	3.222	63760	15	7.676	6.537	63834	8	16.908	8.334	
63528	18	19.050	24.659	63687	11	20.546	3.600	63761	13	8.287	6.350	63835	5	17.253	8.950	
63529	18	19.421	24.473	63688	10	20.806	3.332	63762	11	9.169	6.963	63836	9	17.916	8.498	
63530	9	22.312	24.798	63689	7	22.849	3.545	63763	10	9.648	6.811	63837	13	18.723	8.694	
63531	10	22.439	24.516	63690	17	22.876	3.076	63764	18	11.256	6.830	63838	7	18.889	8.019	
63532	16	23.727	24.809	63691	11	23.106	3.331	63765	12	11.892	6.371	63839	16	19.146	8.893	
63533	18	23.930	24.024	63692	23	24.160	3.919	63766	10	12.718	6.905	63840	14	19.537	8.234	
63534	14	25.693	24.599	63693	9	25.036	3.194	63767	12	12.747	6.074	63841	13	19.759	8.648	
63535	22	25.752	24.830	63694	20	0.662	4.348	63768	6	13.844	6.319	63842	7	19.845	8.166	
63536	6	1.446	25.984	63695	11	0.874	4.569	63769	13	14.001	6.725	63843	10	20.673	8.651	
63537	48	2.576	25.778	63696	13	0.968	4.350	63770	8	15.753	6.008	63844	6	21.046	8.593	
63538	17	4.357	25.196	63697	12	2.743	4.898	63771	7	17.524	6.873	63845*	24	23.257	8.432	
63539	20	7.073	25.710	63698	13	3.799	4.684	63772	18	18.744	6.595	63846	9	23.705	8.471	
63540	7	9.928	25.181	63699	15	4.062	4.720	63773	8	18.769	6.668	63847	11	23.765	8.890	
63541	6	11.264	25.527	63700	6	4.289	4.107	63774	10	19.966	6.889	63848	9	24.255	8.883	
63542	11	12.124	25.286	63701	11	7.977	4.674	63775	7	20.037	6.074	63849	12	24.525	8.916	
63543	18	12.207	25.610	63702*	40	9.354	4.802	63776	13	21.729	6.902	63850	12	24.815	8.340	
63544	8	13.601	25.551	63703	14	10.599	4.073	63777	16	21.737	6.909	63851	8	25.050	8.913	
63545	18	14.407	25.147	63704	20	11.055	4.318	63778	19	22.244	6.056	63852	7	25.551	8.059	
63546	12	14.589	25.830	63705	6	11.243	4.284	63779	12	22.364	6.987	63853	13	25.575	8.653	
63547	8	15.237	25.315	63706	19	11.602	4.685	63780	11	23.442	6.806	63854	8	25.586	8.632	
63548	17	17.027	25.557	63707	9	12.994	4.304	63781	8	23.749	6.039	63855	6	25.917	8.298	
63549	6	19.362	25.562	63708	13	13.099	4.823	63782*	27	25.219	6.790	63856	11	0.156	9.817	
63550	5	20.049	25.728	63709	18	13.125	4.480	63783	8	25.655	6.532	63857	7	0.257	9.024	
63551	6	21.424	25.852	63710	19	13.471	4.114	63784	6	0.213	7.249	63858	7	0.539	9.458	
63552	13	21.860	25.234	63711	8	14.296	4.102	63785	8	0.249	7.987	63859	15	1.180	9.185	
63553*	37	21.928	25.166	63712	16	14.993	4.653	63786	22	2.434	7.081	63860	16	1.872	9.984	
63554	11	23.021	25.443	63713	6	16.102	4.582	63787	15	2.957	7.549	63861	17	1.969	9.996	
				63714	6	17.427	4.607	63788	22	3.568	7.039	63862*	32	2.477	9.502	
				63715	32	19.519	4.159	63789	15	3.867	7.699	63863	12	3.230	9.299	
				63716	13	20.774	4.414	63790	13	4.489	7.546	63864	8	4.059	9.351	
				63717	12	21.000	4.791	63791	14	4.890	7.710	63865	7	4.502	9.013	
				63718	19	23.065	4.700	63792	11	6.172	7.687	63866	8	4.832	9.847	
				63719	9	23.489	4.437	63793	7	6.583	7.370	63867	9	6.389	9.646	

63879	5	20°500	9°570	63953	7	7°823	12°590	64027	5	23°684	14°376	64101*	19	4°350	17°181	64175	22	1°216	19°173
63880	9	21°320	9°716	63954	10	8°053	12°803	64028	11	24°958	14°305	64102	8	4°472	17°578	64176	6	3°374	19°288
63881	14	21°392	9°147	63955*	20	8°860	12°988	64029	18	25°615	14°945	64103	12	4°643	17°576	64177	14	3°545	19°097
63882	9	21°914	9°000	63956	14	8°909	12°400	64030	7	0°236	15°884	64104*	18	4°921	17°450	64178*	19	3°602	19°061
63883	13	22°234	9°283	63957*	13	8°976	12°622	64031*	16	0°344	15°774	64105	7	5°550	17°856	64179	16	4°174	19°316
63884	9	22°822	9°229	63958	9	9°043	12°374	64032	21	0°826	15°188	64106	6	5°593	17°664	64180	19	4°207	19°357
63885*	22	22°929	9°173	63959*	20	9°271	12°906	64033	18	0°827	15°327	64107	7	5°966	17°234	64181	7	5°289	19°495
63886	7	23°288	9°700	63960*	23	9°594	12°432	64034	11	1°332	15°585	64108	9	6°762	17°268	64182	11	6°222	19°736
63887	9	23°307	9°346	63961	5	10°800	12°360	64035	16	1°445	15°659	64109	13	7°590	17°116	64183	6	6°559	19°134
63888	14	24°971	9°265	63962	6	15°121	12°961	64036	6	1°684	15°004	64110*	21	7°916	17°965	64184	8	7°334	19°194
63889	7	0°479	10°822	63963	16	15°224	12°780	64037	7	2°091	15°224	64111	13	8°650	17°708	64185	19	7°789	19°265
63890	7	1°473	10°828	63964	11	15°328	12°197	64038	7	2°979	15°673	64112	8	8°718	17°244	64186	8	8°369	19°979
63891	12	2°850	10°297	63965	15	16°530	12°232	64039	12	3°450	15°311	64113	9	9°104	17°369	64187	9	8°664	19°855
63892	7	4°059	10°332	63966	8	16°814	12°055	64040	9	3°692	15°936	64114	6	9°513	17°876	64188	7	9°148	19°300
63893	10	7°432	10°139	63967	17	17°214	12°401	64041*	20	4°133	15°148	64115	8	12°335	17°985	64189	20	9°982	19°925
63894	15	8°196	10°083	63968	11	18°090	12°575	64042*	33	5°334	15°412	64116	18	14°277	17°197	64190	13	10°295	19°321
63895	9	11°449	10°149	63969	11	18°796	12°152	64043	6	5°512	15°139	64117	6	15°317	17°808	64191	7	11°245	19°605
63896	8	11°601	10°029	63970	10	20°572	12°537	64044	5	5°781	15°616	64118*	27	16°474	17°834	64192	11	11°495	19°973
63897	7	18°049	10°692	63971	6	21°017	12°501	64045	13	8°060	15°704	64119*	26	16°528	17°281	64193*	42	13°370	19°569
63898	15	20°566	10°481	63972	16	22°032	12°062	64046	18	9°141	15°182	64120	6	17°296	17°759	64194	21	13°437	19°501
63899	11	21°242	10°560	63973	6	22°538	12°093	64047	17	10°606	15°489	64121	10	17°496	17°365	64195	20	13°798	19°019
63900	19	21°823	10°452	63974	15	23°551	12°702	64048	8	11°651	15°026	64122	16	18°304	17°435	64196	7	14°365	19°151
63901	8	22°214	10°446	63975	10	24°115	12°586	64049	16	12°370	15°268	64123	20	18°584	17°051	64197	9	14°440	19°803
63902	13	23°597	10°937	63976	8	24°400	12°445	64050	6	14°120	15°841	64124	7	19°435	17°916	64198	11	14°561	19°374
63903	10	23°753	10°802	63977	12	25°574	12°627	64051	9	15°552	15°776	64125	13	20°189	17°571	64199	7	15°034	19°046
63904	14	24°050	10°410	63978	13	0°428	13°896	64052	8	17°572	15°225	64126	10	20°924	17°905	64200	15	16°183	19°721
63905	14	24°185	10°126	63979	8	0°726	13°514	64053	7	19°606	15°501	64127	7	21°957	17°423	64201	7	17°236	19°644
63906	17	24°332	10°027	63980	9	0°814	13°715	64054	8	19°703	15°794	64128	6	24°125	17°102	64202	18	17°247	19°113
63907	6	24°489	10°849	63981	16	1°438	13°561	64055	6	19°847	15°890	64129	9	24°215	17°504	64203	9	17°543	19°928
63908	13	1°818	11°436	63982	11	1°724	13°553	64056	5	20°079	15°974	64130	10	25°376	17°521	64204	19	18°599	19°573
63909	12	1°905	11°209	63983	16	2°096	13°441	64057	13	20°656	15°088	64131	7	0°487	18°123	64205	10	19°050	19°500
63910	10	3°027	11°627	63984	14	4°235	13°762	64058	14	21°685	15°827	64132	10	1°466	18°596	64206	16	19°299	19°039
63911	15	3°633	11°828	63985	16	4°338	13°729	64059	12	24°080	15°883	64133	7	1°790	18°440	64207	10	19°507	19°595
63912	12	5°260	11°254	63986	8	4°703	13°199	64060	10	24°701	15°964	64134	15	2°306	18°484	64208	15	19°740	19°849
63913	5	5°586	11°249	63987	8	5°477	13°156	64061	13	0°053	16°093	64135	6	2°451	18°651	64209	8	19°988	19°494
63914	5	5°654	11°025	63988	9	6°677	13°970	64062	9	1°005	16°429	64136	16	2°637	18°345	64210	7	20°449	19°736
63915	7	5°950	11°372	63989	13	7°118	13°786	64063	14	2°327	16°714	64137	14	3°088	18°451	64211	7	20°588	19°322
63916*	19	6°601	11°163	63990	6	7°271	13°927	64064	21	2°372	16°212	64138*	18	3°258	18°246	64212	15	20°757	19°381
63917*	23	7°106	11°726	63991	12	7°810	13°762	64065	18	2°644	16°565	64139	7	4°643	18°994	64213	14	20°771	19°033
63918	13	7°290	11°607	63992	14	10°631	13°094	64066	6	3°703	16°289	64140	8	4°835	18°035	64214	5	21°831	19°988
63919	15	7°355	11°506	63993	12	11°087	13°518	64067	11	4°122	16°496	64141	10	4°997	18°800	64215	6	22°522	19°382
63920	10	11°790	11°498	63994*	23	11°104	13°579	64068	6	4°851	16°401	64142	19	5°219	18°809	64216	9	25°697	19°328
63921	7	15°149	11°414	63995	8	11°829	13°332	64069	13	5°246	16°616	64143	9	5°336	18°906	64217	14	2°087	20°614
63922	13	15°374	11°037	63996*	21	11°964	13°241	64070	19	6°100	16°768	64144	17	6°310	18°503	64218*	23	3°294	20°808
63923	15	15°558	11°533	63997	17	13°611	13°910	64071	20	6°304	16°663	64145	12	6°805	18°754	64219*	22	3°772	20°867
63924	9	15°963	11°988	63998	14	14°850	13°823	64072	9	7°057	16°903	64146	7	7°246	18°072	64220	6	3°787	20°960
63925	8	16°637	11°704	63999	16	15°236	13°332	64073	13	8°506	16°952	64147	13	7°608	18°071	64221	5	3°895	20°360
63926	7	19°734	11°162	64000	8	15°852	13°580	64074	8	8°615	16°290	64148	6	8°477	18°953	64222	6	4°660	20°727
63927	6	19°965	11°186	64001	18	16°234	13°979	64075	17	9°864	16°123	64149	5	9°509	18°848	64223	13	7°601	20°974
63928*	24	20°353	11°797	64002	14	16°397	13°688	64076	5	9°906	16°312	64150	6	9°921	18°302	64224	9	8°764	20°115
63929	13	20°462	11°930	64003	15	17°450	13°430	64077	5	10°728	16°107	64151	6	10°296	18°174	64225	8	9°580	20°181
63930	13	20°524	11°978	64004*	32	20°270	13°139	64078	13	11°302	16°964	64152	13	12°500	18°441	64226	20	9°938	20°717
63931	18	20°786	11°537	64005	11	21°262	13°906	64079	7	12°888	16°372	64153	22	13°476	18°042	64227	7	11°463	20°889
63932	10	21°818	11°899	64006	14	21°751	13°158	64080	8	16°616	16°781	64154	13	14°119	18°841	64228*	21	13°517	20°770
63933	9	23°274	11°624	64007	7	22°257	13°533	64081	12	16°987	16°672	64155	8	16°303	18°177	64229	6	13°597	20°561
63934	11	23°330	11°240	64008*	27	24°707	13°098	64082	11	18°775	16°004	64156	7	17°592	18°221	64230	5	14°716	20°750
63935	9	23°457	11°250	64009*	44	1°044	14°029	64083	6	19°056	16°985	64157	15	17°934	18°407	64231	21	15°401	20°033
63936	8	23°591	11°519	64010	8	1°048	14°006	64084	6	19°139	16°799	64158	18	18°799	18°020	64232	17	15°730	20°245
63937	13	24°350	11°801	64011	14	1°279	14°135	64085	7	19°913	16°644	64159	14	19°086	18°747	64233	13	16°114	20°120
63938	10	25°127	11°917	64012	13	2°248	14°624	64086	7	21°384	16°049	64160	8	19°340	18°642	64234	14	16°694	20°809
63939	10	25°398	11°466	64013	14	2°607	14°479	64087*	13	22°400	16°700	64161	10	19°966	18°324	64235	10	17°419	20°163
63940	6	25°608	11°006	64014	5	3°416	14°448	64088	5	22°459	16°729	64162	7	19°997	18°373	64236	8	17°508	20°600
63941	13	0°632	12°370	64015	9	5°125	14°010	64089*	23	22°463	16°771								

64249	15	6·346	21·605	64323	19	5·893	23·739	64397	6	5·832	25·215	64522	8	14·698	0·172	64596	15	10·934	3·747
64250	13	6·839	21·667	64324	24	6·727	23·899	64398	5	7·948	25·825	64523	6	18·828	0·887	64597	9	11·404	3·224
64251	8	7·126	21·573	64325	13	7·048	23·175	64399	13	9·386	25·878	64524	26	19·410	0·223	64598	15	11·962	3·785
64252	12	7·354	21·711	64326	17	8·100	23·994	64400	8	9·895	25·416	64525	9	22·085	0·699	64599	8	12·470	3·769
64253	13	8·015	21·128	64327	15	8·484	23·618	64401	17	11·967	25·418	64526	21	22·466	0·261	64600	6	12·856	3·295
64254	9	8·354	21·180	64328	8	8·761	23·645	64402	24	12·258	25·988	64527	8	22·561	0·322	64601*	27	14·109	3·438
64255	8	8·595	21·115	64329	11	8·771	23·479	64403	13	14·251	25·007	64528	15	22·662	0·994	64602	9	15·107	3·869
64256	8	8·995	21·987	64330	8	9·093	23·168	64404	7	15·277	25·401	64529	19	23·023	0·264	64603	16	15·890	3·147
64257	11	9·361	21·299	64331	7	10·834	23·472	64405	8	15·402	25·853	64530	10	23·133	0·710	64604	11	16·360	3·323
64258	14	9·589	21·824	64332	13	11·198	23·259	64406	10	15·493	25·799	64531	9	1·728	1·615	64605	23	16·718	3·918
64259	12	9·700	21·394	64333*	45	11·521	23·951	64407	9	16·950	25·860	64532	12	2·199	1·774	64606	12	16·861	3·639
64260	8	9·740	21·421	64334	13	12·164	23·197	64408	6	17·198	25·086	64533	7	2·731	1·443	64607	8	17·274	3·419
64261	9	10·893	21·415	64335	14	12·198	23·878	64409	7	17·462	25·408	64534	6	5·092	1·555	64608	6	17·509	3·398
64262	7	11·337	21·421	64336	5	12·225	23·163	64410	7	17·678	25·119	64535	12	5·720	1·239	64609	6	17·893	3·882
64263	7	11·446	21·780	64337	10	12·742	23·025	64411	7	18·925	25·713	64536	16	6·802	1·521	64610	13	17·973	3·493
64264	6	12·022	21·171	64338	7	12·821	23·024	64412	11	20·218	25·350	64537	6	7·495	1·130	64611	8	18·726	3·662
64265	7	13·346	21·620	64339	6	12·861	23·702	64413	10	20·422	25·252	64538*	22	8·814	1·383	64612	20	19·040	3·754
64266	6	13·350	21·638	64340	9	13·087	23·359	64414	6	21·617	25·246	64539	7	8·900	1·135	64613	12	21·436	3·253
64267	7	14·281	21·885	64341	18	13·353	23·573	64415	29	21·812	25·560	64540	9	9·132	1·554	64614*	14	25·188	3·896
64268	14	14·576	21·705	64342	10	13·842	23·120	64416	9	21·976	25·159	64541	6	9·295	1·877	64615*	25	25·493	3·820
64269	6	16·066	21·018	64343	5	14·484	23·967	64417	16	23·220	25·505	64542	11	9·347	1·568	64616	23	1·231	4·967
64270	14	16·179	21·360	64344*	23	15·604	23·526	64418	12	23·511	25·208	64543	8	10·256	1·843	64617	8	1·650	4·696
64271	20	16·202	21·855	64345*	24	15·886	23·464	64419	10	23·643	25·309	64544	7	10·687	1·505	64618	22	2·312	4·169
64272*	23	16·422	21·204	64346	5	16·473	23·861	64420	21	23·774	25·975	64545	14	10·788	1·351	64619	12	3·535	4·697
64273	12	16·484	21·718	64347	12	16·703	23·246	64421	18	24·055	25·433	64546	4	10·884	1·249	64620	7	3·843	4·557
64274	15	17·329	21·812	64348	6	17·171	23·154	64422	10	24·449	25·415	64547	7	11·820	1·305	64621	9	4·040	4·978
64275	6	18·400	21·690	64349	17	18·700	23·315	64423	17	24·875	25·843	64548	14	12·469	1·106	64622	16	4·051	4·973
64276	11	19·236	21·833	64350	12	19·174	23·332	64424	13	24·886	25·105	64549	13	12·810	1·401	64623	17	4·872	4·480
64277	14	19·951	21·415	64351*	31	19·300	23·903	64425	16	25·095	25·929	64550	10	12·814	1·440	64624	6	6·400	4·816
64278*	36	20·417	21·821	64352	7	19·528	23·532	64426	17	25·138	25·244	64551	16	14·812	1·192	64625	11	7·297	4·854
64279	20	21·424	21·496	64353	8	20·393	23·680					64552	7	15·374	1·866	64626	5	7·945	4·769
64280	6	22·039	21·097	64354	13	20·491	23·235					64553	8	15·618	1·703	64627	16	8·292	4·892
64281*	22	22·199	21·951	64355	7	21·134	23·812					64554	9	15·643	1·856	64628	8	9·088	4·491
64282	12	22·837	21·690	64356	9	21·199	23·155					64555	13	16·879	1·263	64629	6	9·437	4·805
64283	21	23·950	21·495	64357	8	23·040	23·228					64556	16	16·906	1·918	64630	7	9·453	4·511
64284	5	24·282	21·457	64358	13	23·193	23·159					64557	15	17·577	1·947	64631*	25	10·930	4·052
64285	23	24·927	21·256	64359*	27	25·852	23·798					64558	11	24·661	1·015	64632	8	11·700	4·606
64286	7	24·976	21·689	64360*	36	0·776	24·803					64559	15	1·643	2·770	64633	15	11·954	4·577
64287	9	0·817	22·933	64361	7	1·155	24·429					64560	20	3·558	2·394	64634	8	12·395	4·834
64288	5	1·326	22·492	64362	6	1·281	24·142					64561	6	6·153	2·670	64635	9	12·873	4·932
64289	20	2·311	22·409	64363	16	2·573	24·416					64562	6	7·140	2·835	64636	18	13·182	4·446
64290	8	3·129	22·345	64364	13	4·538	24·174					64563	13	7·548	2·267	64637	15	14·673	4·699
64291	11	3·767	22·056	64365	21	4·599	24·402					64564	17	7·827	2·918	64638	13	15·757	4·151
64292	9	3·899	22·129	64366	15	6·896	24·863					64565*	23	8·900	2·830	64639	14	17·635	4·345
64293	16	4·074	22·948	64367	9	6·952	24·336					64566	7	10·110	2·883	64640	8	18·298	4·233
64294	7	5·491	22·818	64368	18	7·386	24·614					64567	14	11·124	2·184	64641	9	19·117	4·786
64295	6	5·882	22·945	64369	22	8·397	24·347					64568	16	14·974	2·339	64642	21	19·663	4·087
64296	13	7·873	22·317	64370	5	9·470	24·344					64569	20	15·739	2·338	64643	14	19·795	4·728
64297	14	9·464	22·251	64371	7	9·823	24·006					64570	6	16·629	2·589	64644	7	21·232	4·820
64298	13	10·087	22·740	64372	8	10·264	24·027					64571	9	17·330	2·064	64645	14	22·054	4·816
64299	7	12·100	22·743	64373	9	10·767	24·528					64572	12	17·442	2·359	64646	11	23·560	4·278
64300	12	12·232	22·807	64374	11	11·791	24·163					64573*	30	18·031	2·335	64647	8	23·614	4·072
64301	7	14·201	22·687	64375*	41	11·884	24·085					64574	9	19·765	2·801	64648	8	25·706	4·078
64302	8	14·254	22·670	64376*	26	13·353	24·379					64575	14	19·888	2·286	64649	12	1·223	5·357
64303	11	14·641	22·600	64377	6	13·598	24·180					64576	17	20·232	2·405	64650	14	2·177	5·511
64304	12	14·981	22·948	64378	7	17·127	24·724					64577	11	20·289	2·414	64651	16	2·739	5·813
64305	14	15·193	22·013	64379	7	17·428	24·653					64578	19	21·116	2·402	64652	13	2·936	5·102
64306	17	15·412	22·381	64380	13	17·493	24·788					64579	8	23·085	2·062	64653	12	3·718	5·749
64307	14	15·553	22·468	64381*	16	17·756	24·303					64580	10	23·282	2·720	64654	6	7·886	5·095
64308	9	16·391	22·296	64382	10	18·351	24·849					64581	14	1·018	3·344	64655	5	7·939	5·209
64309	7	20·518	22·602	64383	9	18·829	24·935					64582	8	1·253	3·597	64656	9	8·605	5·418
64310	14	21·024	22·216	64384*	33	18·867	24·433					64583	12	3·178	3·431	64657	12	8·943	5·679
64311	13	21·032	22·632	64385	13	20·333	24·654					64584	11	3·680	3·188	64658	13	9·649	5·236
64312	10	21·240	22·062	64386	7	20·986	24·689					64585	20	4·939	3·429	64659	11	10·753	5·244
64313	24	23·011	22·941	64387	8	21·509	24·092					64586	19	5·251	3·397	64660*	35	11·060	5·955
64314	12	23·079	22·272	64388	7	22·269	24·807					64587	5	5·905	3·276	64661	14	11·061	5·907
64315	13	23·742	22·790	64389	6	22·804	24·116					64588	11	6·063	3·181	64662	8	11·346	5·929
64316	13	24·982	22·151																

64670	18	16.451	5.069	64744	11	14.817	7.206	64818	17	15.819	9.199	64892	13	8.357	11.716	64966*	16	22.846	13.621
64671	12	16.514	5.265	64745	14	15.148	7.907	64819	16	15.965	9.926	64893	15	9.688	11.568	64967	10	23.187	13.702
64672	18	17.547	5.556	64746	8	15.438	7.041	64820	8	16.038	9.884	64894	14	10.567	11.857	64968	17	23.316	13.257
64673	8	18.070	5.130	64747	6	17.088	7.938	64821	17	16.347	9.255	64895*	26	11.345	11.773	64969*	20	23.753	13.402
64674	10	18.498	5.431	64748	5	18.134	7.623	64822	10	16.632	9.426	64896	8	11.571	11.976	64970	12	24.106	13.885
64675	9	19.286	5.289	64749	7	18.386	7.634	64823	8	16.666	9.519	64897*	45	12.447	11.353	64971	8	24.640	13.261
64676	10	20.901	5.757	64750	11	19.007	7.279	64824	10	18.199	9.095	64898	13	13.774	11.740	64972	15	24.732	13.353
64677	14	22.045	5.956	64751	13	19.244	7.316	64825	13	18.257	9.784	64899*	34	13.991	11.824	64973	6	25.166	13.814
64678	18	23.217	5.813	64752	8	19.485	7.933	64826	9	18.959	9.088	64900	13	14.203	11.081	64974	10	25.598	13.749
64679	12	25.155	5.858	64753	5	20.743	7.289	64827	13	19.011	9.834	64901	8	15.958	11.669	64975	12	3.252	14.545
64680	15	25.156	5.847	64754	12	20.967	7.522	64828	7	19.207	9.073	64902*	29	18.187	11.049	64976	11	6.445	14.796
64681	21	25.904	5.100	64755	14	22.005	7.692	64829	11	19.294	9.956	64903	20	19.144	11.867	64977	14	6.782	14.280
64682	18	0.425	6.331	64756	18	22.179	7.354	64830	8	19.597	9.494	64904	9	20.884	11.819	64978	8	7.024	14.610
64683	5	1.520	6.735	64757	7	22.207	7.071	64831	13	19.688	9.778	64905	15	21.305	11.054	64979	14	7.343	14.026
64684	8	1.934	6.295	64758	8	22.587	7.243	64832	20	20.436	9.579	64906	13	22.956	11.354	64980	18	7.564	14.599
64685	10	3.844	6.761	64759	7	22.654	7.674	64833	9	22.161	9.743	64907	6	23.476	11.961	64981	8	7.631	14.290
64686	8	4.265	6.390	64760	20	23.146	7.051	64834	16	22.477	9.217	64908	14	24.204	11.962	64982	6	8.178	14.807
64687	6	5.168	6.528	64761	8	24.818	7.373	64835	15	22.702	9.962	64909	6	24.335	11.035	64983	13	8.474	14.815
64688	19	5.475	6.717	64762	13	25.002	7.111	64836	10	24.329	9.324	64910	9	25.275	11.624	64984	6	9.304	14.856
64689	9	5.493	6.759	64763	11	25.649	7.689	64837	12	24.962	9.620	64911	11	0.076	12.178	64985	9	9.320	14.251
64690	8	5.544	6.471	64764*	27	1.472	8.692	64838	7	25.163	9.583	64912	17	0.295	12.342	64986	18	10.679	14.819
64691	8	5.972	6.713	64765	11	1.923	8.727	64839	11	25.336	9.075	64913	16	1.824	12.962	64987	8	11.023	14.429
64692	15	6.469	6.586	64766	13	3.028	8.582	64840	7	25.967	9.596	64914	11	2.385	12.836	64988	10	11.582	14.990
64693	6	7.070	6.581	64767	9	3.761	8.291	64841	22	0.066	10.735	64915	13	2.609	12.048	64989	7	11.896	14.192
64694	11	7.589	6.157	64768	14	3.794	8.885	64842	8	0.455	10.724	64916	8	2.668	12.690	64990	13	14.441	14.985
64695	7	7.914	6.933	64769	9	3.804	8.866	64843	15	2.292	10.661	64917	11	3.389	12.155	64991	6	14.613	14.306
64696	18	9.998	6.232	64770	8	4.132	8.522	64844	14	2.423	10.374	64918	14	3.847	12.857	64992	7	14.714	14.317
64697	7	10.042	6.815	64771	16	4.517	8.824	64845	18	2.569	10.277	64919*	22	4.347	12.675	64993	21	15.252	14.299
64698	12	12.513	6.524	64772	13	5.300	8.528	64846	7	5.574	10.039	64920	12	5.123	12.303	64994	8	15.477	14.308
64699	7	12.556	6.547	64773	8	7.440	8.323	64847	15	5.866	10.839	64921	8	5.296	12.481	64995	8	19.455	14.395
64700	14	12.740	6.124	64774	15	8.907	8.130	64848*	24	6.207	10.877	64922	11	6.440	12.212	64996	13	21.302	14.190
64701	5	13.203	6.481	64775*	32	9.271	8.535	64849	6	7.165	10.315	64923	13	8.033	12.550	64997	15	21.441	14.991
64702	10	14.078	6.627	64776	22	10.261	8.675	64850	8	7.374	10.049	64924	12	8.867	12.770	64998	16	21.843	14.909
64703	17	14.228	6.206	64777	6	10.406	8.452	64851	7	7.399	10.436	64925*	19	9.586	12.539	64999	15	22.297	14.421
64704	7	14.589	6.072	64778	8	10.809	8.343	64852	13	8.036	10.884	64926	13	9.618	12.641	65000*	22	23.577	14.583
64705	13	14.873	6.324	64779	22	11.054	8.926	64853	14	8.549	10.799	64927	18	11.431	12.120	65001	17	25.223	14.127
64706	12	14.885	6.371	64780	11	11.166	8.595	64854	15	9.008	10.651	64928	12	13.052	12.929	65002	11	25.864	14.013
64707	10	15.123	6.906	64781	13	13.234	8.759	64855	20	11.177	10.616	64929	16	13.096	12.823	65003	7	2.301	15.177
64708	7	15.919	6.419	64782	9	13.405	8.435	64856	16	11.523	10.372	64930	8	15.657	12.727	65004	15	3.921	15.176
64709	14	16.189	6.055	64783	7	14.007	8.036	64857	15	13.080	10.666	64931	15	15.860	12.865	65005	21	4.539	15.693
64710*	67	17.061	6.814	64784	8	14.199	8.923	64858*	30	14.639	10.989	64932	7	16.944	12.113	65006*	39	4.807	15.214
64711	11	17.628	6.366	64785	9	16.023	8.000	64859	17	15.375	10.371	64933	5	16.977	12.047	65007	9	4.902	15.123
64712	10	17.957	6.899	64786	14	16.238	8.505	64860	12	16.382	10.773	64934	9	17.731	12.682	65008	11	5.968	15.898
64713	20	18.101	6.657	64787	10	17.233	8.390	64861	14	16.511	10.679	64935	6	17.768	12.951	65009	15	6.139	15.384
64714	17	19.298	6.559	64788*	72	17.803	8.434	64862	6	17.359	10.424	64936	9	18.670	12.948	65010	6	6.698	15.607
64715	6	19.962	6.697	64789	6	20.179	8.284	64863	17	17.540	10.692	64937	13	19.308	12.246	65011*	24	7.177	15.166
64716	10	20.733	6.802	64790*	20	20.832	8.373	64864	9	19.435	10.744	64938	12	19.679	12.015	65012	7	7.385	15.222
64717	12	21.106	6.796	64791	19	21.287	8.342	64865	13	20.458	10.973	64939	13	19.975	12.825	65013	13	7.846	15.365
64718	11	21.432	6.185	64792*	34	21.929	8.368	64866	12	21.232	10.335	64940	15	20.610	12.597	65014	9	8.377	15.556
64719	7	24.749	6.679	64793	12	23.047	8.877	64867	13	22.807	10.961	64941	20	22.225	12.809	65015	12	8.612	15.272
64720	14	25.045	6.535	64794	11	23.107	8.429	64868	8	22.849	10.749	64942	12	22.602	12.823	65016	8	9.434	15.876
64721	13	0.556	7.262	64795*	37	24.599	8.366	64869	14	22.924	10.691	64943	15	23.266	12.174	65017	5	9.625	15.965
64722	6	1.354	7.979	64796	10	0.132	9.281	64870	13	24.077	10.645	64944	15	0.029	13.441	65018	5	9.879	15.366
64723	13	1.634	7.066	64797	14	0.459	9.558	64871	10	24.863	10.096	64945	5	0.542	13.809	65019	13	10.215	15.097
64724	9	3.373	7.437	64798	7	1.045	9.499	64872	7	24.915	10.931	64946*	24	2.986	13.340	65020	10	10.336	15.919
64725*	29	3.411	7.025	64799*	23	1.152	9.438	64873	5	1.312	11.474	64947	12	4.495	13.416	65021	6	10.743	15.838
64726	20	3.948	7.705	64800	8	1.534	9.608	64874	9	1.529	11.887	64948	7	5.137	13.971	65022	8	10.834	15.255
64727	5	4.499	7.621	64801	12	1.986	9.148	64875	8	1.584	11.501	64949	14	5.962	13.125	65023	9	12.739	15.109
64728	12	6.807	7.162	64802	9	2.477	9.134	64876	9	1.710	11.510	64950	7	6.065	13.722	65024	11	13.837	15.578
64729*	29	6.818	7.678	64803	13	2.746	9.160	64877	11	1.844	11.195	64951	12	6.169	13.528	65025	9	14.085	15.203
64730	21	6.919	7.413	64804	17	3.197	9.504	64878	7	1.847	11.776	64952*	29	6.684	13.341	65026	11	14.378	15.189
64731	8	7.437	7.964	64805	7	3.272	9.153	64879	10	2.000	11.059	64953	11	7.012	13.860	65027	15	15.496	15.382
64732	6	8.078	7.133	64806	7	3.564	9.406	64880	5	2.734	11.096	64954	8	9.636	13.883	65028	16	15.847	15.098
64733	13	8.135																	

65040	7	25°338	15°297	65114	14	23°684	17°096	65188	13	13°642	19°161	65262	14	13°702	21°866	65336	14	13°709	23°403
65041	7	0°001	16°111	65115	13	24°558	17°564	65189	7	14°085	19°713	65263	8	15°326	21°885	65337	15	14°697	23°177
65042*	15	0°724	16°976	65116	5	25°394	17°194	65190	18	15°445	19°536	65264	9	15°479	21°076	65338	7	16°795	23°461
65043	8	0°860	16°560	65117	6	0°297	18°696	65191	20	15°488	19°454	65265	11	18°462	21°774	65339	8	17°186	23°744
65044	16	1°342	16°851	65118	14	1°974	18°773	65192	5	15°927	19°786	65266	7	19°069	21°676	65340	17	18°534	23°172
65045	13	2°397	16°135	65119	11	2°286	18°727	65193	7	16°421	19°078	65267	9	19°833	21°115	65341	8	18°553	23°184
65046	10	3°019	16°208	65120	7	3°010	18°568	65194*	25	16°596	19°595	65268	8	20°890	21°885	65342	12	19°674	23°073
65047	7	3°103	16°427	65121	16	3°273	18°575	65195	6	17°294	19°770	65269	21	21°062	21°517	65343	13	20°426	23°559
65048	11	3°602	16°939	65122	13	3°510	18°510	65196	13	18°601	19°078	65270	6	21°851	21°396	65344	19	21°960	23°691
65049	7	4°279	16°036	65123	7	5°206	18°594	65197	11	20°162	19°027	65271	15	23°576	21°569	65345	12	23°022	23°865
65050	16	4°636	16°420	65124	16	5°419	18°201	65198	6	20°337	19°010	65272	12	24°615	21°065	65346	10	24°449	23°900
65051	8	5°385	16°205	65125	16	6°329	18°549	65199	7	20°754	19°650	65273	6	25°190	21°829	65347	6	24°555	23°248
65052	5	5°789	16°874	65126	12	7°100	18°567	65200	17	21°425	19°969	65274*	43	25°716	21°946	65348	8	25°804	23°669
65053	10	7°109	16°661	65127	9	7°335	18°007	65201	15	21°899	19°906	65275	9	25°873	21°721	65349*	26	4°274	24°023
65054	17	7°189	16°785	65128	14	8°019	18°148	65202	18	22°520	19°141	65276*	23	0°595	22°231	65350*	45	6°582	24°853
65055	12	8°026	16°509	65129	12	8°072	18°925	65203	13	23°468	19°947	65277	12	1°483	22°537	65351	20	6°916	24°566
65056	17	8°281	16°184	65130	10	9°584	18°453	65204	13	23°873	19°394	65278	7	2°612	22°866	65352	16	7°078	24°706
65057	8	9°336	16°033	65131	7	9°815	18°620	65205	21	25°087	19°639	65279	14	3°384	22°391	65353	12	7°092	24°223
65058	12	12°679	16°597	65132	17	10°002	18°897	65206	20	1°741	20°516	65280	12	4°630	22°658	65354	7	7°355	24°112
65059	8	13°554	16°855	65133	7	11°234	18°213	65207	14	1°808	20°325	65281	13	4°956	22°502	65355	28	7°396	24°929
65060	7	14°040	16°536	65134	20	11°706	18°592	65208	17	1°932	20°944	65282	15	5°055	22°612	65356	12	8°540	24°254
65061	6	14°207	16°768	65135	7	12°124	18°405	65209	21	2°480	20°787	65283*	31	5°193	22°551	65357	9	8°856	24°695
65062	16	14°295	16°613	65136	8	14°178	18°454	65210	14	5°096	20°541	65284	6	5°483	22°037	65358	14	9°525	24°233
65063	13	16°171	16°593	65137	11	14°784	18°131	65211	22	6°544	20°506	65285	17	7°134	22°822	65359	12	10°486	24°626
65064	9	16°206	16°545	65138	5	15°883	18°356	65212	12	7°423	20°305	65286	14	8°504	22°189	65360	11	10°775	24°278
65065	10	17°970	16°107	65139*	19	15°999	18°057	65213	8	7°819	20°451	65287	22	8°773	22°406	65361	7	11°379	24°396
65066*	19	18°451	16°744	65140	7	16°116	18°218	65214	11	8°003	20°806	65288	8	9°154	22°234	65362	7	11°502	24°634
65067	6	19°095	16°653	65141	9	17°896	18°850	65215	11	8°116	20°780	65289	10	9°466	22°825	65363	15	11°798	24°478
65068	9	19°119	16°000	65142	10	17°969	18°877	65216	8	9°212	20°866	65290	8	10°126	22°191	65364	14	13°178	24°518
65069	14	21°387	16°166	65143	8	18°476	18°294	65217	17	10°293	20°791	65291	21	10°669	22°991	65365	16	15°319	24°717
65070	10	21°607	16°267	65144	6	18°594	18°756	65218	6	10°395	20°221	65292	11	10°898	22°495	65366	15	15°918	24°036
65071	5	22°355	16°389	65145	14	19°024	18°307	65219	10	10°676	20°606	65293	8	10°909	22°489	65367	11	16°769	24°433
65072	9	23°028	16°906	65146	5	19°292	18°176	65220	7	11°788	20°727	65294	10	10°945	22°091	65368	6	17°689	24°239
65073	8	23°651	16°410	65147	7	20°248	18°803	65221	18	12°316	20°452	65295	8	13°351	22°767	65369	5	18°066	24°725
65074	5	24°245	16°065	65148	12	20°419	18°682	65222	11	12°519	20°045	65296	9	13°824	22°288	65370	15	18°743	24°289
65075	13	24°767	16°527	65149	14	20°698	18°294	65223*	35	12°758	20°653	65297	19	16°469	22°221	65371	12	19°542	24°526
65076*	24	0°789	17°044	65150	6	20°786	18°207	65224	19	12°803	20°754	65298	11	16°797	22°004	65372*	19	19°910	24°940
65077	5	1°481	17°194	65151	9	21°777	18°363	65225*	29	13°121	20°465	65299	6	17°206	22°057	65373	7	20°304	24°487
65078	16	2°075	17°006	65152	8	21°892	18°466	65226	20	13°292	20°497	65300	11	17°653	22°752	65374*	28	20°587	24°904
65079	8	2°458	17°352	65153	9	22°464	18°865	65227	9	13°550	20°382	65301	20	18°128	22°332	65375*	16	20°736	24°408
65080	10	2°553	17°755	65154	8	22°787	18°906	65228*	26	13°586	20°109	65302	11	18°137	22°936	65376	12	22°720	24°796
65081	9	3°712	17°753	65155	20	22°833	18°665	65229	9	14°200	20°976	65303	5	18°764	22°775	65377*	33	23°295	24°427
65082	14	4°903	17°962	65156	14	23°197	18°386	65230	6	14°805	20°209	65304	7	19°217	22°514	65378	13	24°403	24°887
65083	9	5°018	17°280	65157*	33	23°719	18°666	65231*	22	14°987	20°972	65305	19	19°603	22°379	65379	35	0°257	25°844
65084	14	5°279	17°815	65158	15	24°200	18°517	65232	13	15°888	20°177	65306	7	19°705	22°197	65380	6	0°422	25°441
65085	17	6°713	17°268	65159	9	25°255	18°200	65233*	13	16°374	20°143	65307	17	19°894	22°808	65381	16	1°668	25°772
65086	21	7°686	17°319	65160	15	25°909	18°328	65234	17	18°015	20°275	65308	22	19°915	22°635	65382	12	1°957	25°467
65087	11	7°718	17°817	65161	14	0°575	19°276	65235	19	19°353	20°296	65309	14	21°767	22°757	65383	11	2°086	25°569
65088	6	7°842	17°092	65162	15	0°819	19°198	65236	8	20°252	20°057	65310	14	22°224	22°558	65384	20	2°502	25°685
65089	5	8°290	17°022	65163	14	3°932	19°214	65237	16	23°027	20°048	65311	18	24°599	22°354	65385	15	2°894	25°663
65090	6	9°024	17°839	65164	12	4°059	19°557	65238	7	23°039	20°627	65312	23	1°423	23°206	65386	14	3°329	25°348
65091	8	9°027	17°208	65165	17	4°060	19°074	65239	10	23°210	20°157	65313	12	1°607	23°424	65387	18	3°584	25°483
65092	15	9°294	17°661	65166	8	5°757	19°079	65240	11	23°467	20°962	65314	14	2°151	23°045	65388	42	6°575	25°801
65093	12	9°462	17°378	65167	19	6°524	19°637	65241	17	25°337	20°234	65315	7	4°026	23°136	65389	7	6°860	25°091
65094	7	9°778	17°605	65168	10	6°700	19°218	65242*	24	25°468	20°373	65316	6	5°267	23°162	65390*	27	7°413	25°348
65095*	24	9°985	17°976	65169	9	7°068	19°880	65243	13	1°231	21°958	65317	19	5°818	23°339	65391	9	9°900	25°509
65096	7	10°502	17°710	65170	5	7°103	19°300	65244	23	2°344	21°747	65318	9	6°048	23°368	65392	18	10°210	25°417
65097*	37	10°917	17°524	65171	5	7°941	19°153	65245	24	3°316	21°494	65319	5	6°616	23°138	65393	8	10°228	25°827
65098	8	11°035	17°402	65172	11	8°282	19°912	65246	13	3°375	21°933	65320	21	6°900	23°106	65394	17	10°434	25°853
65099	9	11°386	17°121	65173	9	8°921	19°793	65247	7	4°122	21°335	65321	15	7°053	23°706	65395	18	11°303	25°654
65100	9	11°801	17°539	65174	7	8°939	19°343	65248	15	4°706	21°172	65322	20	7°956	23°774	65396	9	12°620	25°706
65101	14	12°030	17°078	65175	14	9°936	19°007	65249	5	5°360	21°480	65323	17	8°279	23°853	65397	7	14°185	25°275
65102	7	12°344	17°337	65176	7	10°376	19°624	65250											

65410	17	24°443	25°898	65549	8	5°545	1°960	65623	10	8°856	3°788	65697	11	15°054	5°156	65771	12	18°851	7°678
65411	20	24°770	25°143	65550	16	5°714	1°179	65624	7	9°564	3°226	65698	18	15°197	5°356	65772	10	20°147	7°083
65412	9	25°080	25°416	65551	12	6°173	1°607	65625	25	9°725	3°773	65699	12	16°783	5°301	65773	17	21°184	7°090
				65552	7	8°706	1°488	65626	13	10°852	3°519	65700	11	16°794	5°504	65774	12	21°258	7°587
				65553	6	9°103	1°799	65627	19	13°191	3°438	65701*	30	18°232	5°165	65775	12	21°263	7°719
				65554	13	9°325	1°262	65628	6	13°951	3°457	65702	11	18°615	5°447	65776	21	21°889	7°294
				65555	17	10°843	1°167	65629	9	14°637	3°987	65703*	37	18°766	5°540	65777	8	23°007	7°681
				65556	8	10°877	1°243	65630	22	15°430	3°161	65704	10	20°335	5°201	65778	8	23°058	7°853
				65557	13	12°819	1°390	65631	17	15°632	3°464	65705	8	20°446	5°004	65779	6	24°040	7°837
				65558	11	13°534	1°537	65632	16	15°714	3°097	65706	7	20°923	5°102	65780	27	24°308	7°298
				65559	12	13°745	1°408	65633	14	16°268	3°593	65707	10	21°599	5°348	65781	12	24°762	7°204
				65560	11	13°799	1°144	65634	18	16°441	3°847	65708	11	22°035	5°515	65782	10	25°257	7°176
				65561	11	15°044	1°076	65635	23	16°947	3°552	65709	18	22°221	5°007	65783	9	25°648	7°386
				65562	10	15°802	1°397	65636	12	19°354	3°354	65710	21	22°298	5°675	65784	8	25°732	7°578
				65563	8	15°869	1°931	65637	11	20°091	3°997	65711	17	22°546	5°686	65785	15	0°103	8°421
				65564	14	15°919	1°820	65638	19	20°969	3°918	65712	22	23°719	5°844	65786	22	0°272	8°081
				65565	12	16°410	1°126	65639	13	23°019	3°939	65713	7	24°283	5°743	65787	10	2°913	8°057
				65566	7	19°104	1°344	65640	14	23°310	3°489	65714	16	24°765	5°305	65788	11	3°746	8°362
				65567	16	19°230	1°797	65641	13	23°474	3°353	65715	11	25°540	5°798	65789	25	4°443	8°515
				65568	10	19°837	1°344	65642	6	24°373	3°258	65716	7	25°747	5°853	65790	13	5°614	8°362
				65569	11	20°262	1°291	65643	6	24°604	3°802	65717	8	0°116	6°684	65791	15	5°676	8°672
				65570	23	21°179	1°277	65644	9	24°894	3°706	65718	19	1°288	6°523	65792	15	5°814	8°719
				65571	23	21°353	1°868	65645	21	24°917	3°721	65719	19	3°227	6°533	65793	12	7°353	8°839
				65572	16	21°484	1°875	65646*	39	25°041	3°618	65720	19	7°008	6°416	65794	11	12°671	8°575
				65573	11	21°668	1°774	65647	8	1°607	4°985	65721	11	7°912	6°423	65795	10	14°012	8°164
				65574	13	22°955	1°873	65648	7	2°678	4°844	65722	6	9°199	6°857	65796	13	14°684	8°608
				65575	15	23°304	1°151	65649*	16	3°228	4°578	65723	10	9°461	6°937	65797	9	15°191	8°537
				65576	26	24°160	1°530	65650*	33	3°531	4°496	65724	8	10°744	6°120	65798	11	15°607	8°966
				65577	7	25°466	1°517	65651	9	3°752	4°751	65725	16	11°417	6°121	65799	14	15°798	8°858
				65578	19	25°628	1°497	65652	13	5°653	4°125	65726	23	12°120	6°417	65800	22	16°489	8°147
				65579	8	1°102	2°777	65653	20	8°176	4°731	65727	14	12°153	6°480	65801	30	16°784	8°152
				65580	8	4°085	2°204	65654	21	9°631	4°328	65728	6	12°301	6°947	65802	11	17°278	8°655
				65581	13	4°251	2°340	65655	15	10°342	4°890	65729	6	12°498	6°921	65803	14	18°597	8°723
				65582*	29	7°178	2°071	65656	23	11°952	4°106	65730	7	12°793	6°929	65804	16	18°601	8°097
				65583	11	8°516	2°257	65657	14	12°166	4°197	65731	22	13°307	6°009	65805	29	19°962	8°771
				65584	9	8°574	2°233	65658	11	12°257	4°028	65732	26	13°486	6°334	65806	14	20°422	8°707
				65585	8	8°612	2°974	65659	21	13°193	4°493	65733*	47	13°987	6°817	65807	6	20°661	8°292
				65586	11	8°764	2°754	65660	7	13°779	4°535	65734*	38	14°749	6°889	65808	22	20°958	8°794
				65587	9	8°877	2°283	65661	9	13°968	4°541	65735	10	15°273	6°164	65809	22	21°727	8°963
				65588	10	9°128	2°757	65662	19	14°514	4°391	65736	13	15°368	6°092	65810	7	22°754	8°317
				65589	21	10°619	2°638	65663	22	15°236	4°998	65737	14	15°701	6°790	65811	29	23°749	8°126
				65590	21	11°113	2°094	65664	10	18°906	4°502	65738	8	16°372	6°242	65812	9	23°782	8°243
				65591	7	11°640	2°788	65665	16	19°715	4°816	65739	18	16°443	6°669	65813	11	24°466	8°158
				65592	21	11°719	2°767	65666	8	20°064	4°264	65740	13	16°467	6°018	65814	7	24°501	8°088
				65593	13	11°786	2°953	65667	13	20°119	4°278	65741	12	19°894	6°476	65815	14	24°541	8°506
				65594	11	12°347	2°314	65668	12	20°136	4°154	65742	9	23°252	6°550	65816	27	25°537	8°991
				65595	10	12°945	2°846	65669	11	20°177	4°548	65743*	28	23°348	6°715	65817	8	25°794	8°602
				65596	24	13°428	2°787	65670	10	20°896	4°074	65744	12	23°543	6°597	65818*	38	0°035	9°098
				65597	11	13°784	2°488	65671	26	22°398	4°824	65745	23	23°562	6°856	65819	17	0°598	9°938
				65598	8	15°216	2°985	65672	7	23°397	4°777	65746	13	23°894	6°240	65820	10	1°164	9°590
				65599	9	19°423	2°234	65673	8	23°545	4°157	65747	6	25°043	6°094	65821	9	1°218	9°142
				65600	24	19°555	2°619	65674	13	23°895	4°220	65748	12	25°085	6°224	65822*	49	2°707	9°054
				65601	13	19°895	2°576	65675	16	23°937	4°214	65749	7	0°296	7°798	65823	10	3°456	9°749
				65602	12	20°611	2°195	65676	11	24°168	4°049	65750	7	0°674	7°962	65824	17	4°142	9°695
				65603	11	20°706	2°934	65677	9	25°345	4°025	65751	26	1°232	7°761	65825	11	5°216	9°286
				65604	11	22°067	2°529	65678	13	0°109	5°548	65752	9	2°831	7°368	65826	6	7°021	9°319
				65605	21	22°657	2°253	65679	23	3°963	5°770	65753	14	3°093	7°794	65827	18	7°347	9°369
				65606	9	23°324	2°743	65680	9	5°800	5°536	65754	15	3°126	7°217	65828	30	8°511	9°278
				65607	14	23°746	2°111	65681	11	7°112	5°561	65755	31	4°468	7°415	65829	6	8°539	9°068
				65608	7	24°960	2°295	65682	12	8°918	5°290	65756	9	6°813	7°006	65830	7	8°800	9°605
				65609	11	25°035	2°242	65683	10	9°513	5°094	65757	14	7°069	7°952	65831	23	9°091	9°576
				65610	10	1°303	3°428	65684	8	10°320	5°421	65758	18	7°321	7°776	65832	6	9°452	9°093
				65611	12	4°643	3°226	65685	21	11°052	5°197	65759	7	7°880	7°326	65833	18	10°094	9°232
				65612	13	4°976	3°932	65686*	39	11°276	5°154	65760	12	9°109	7°955	65834	12	11°772	9°297
				65613	13	5°247	3°648	65687	12	11°885	5°127	65761	24	9°288	7°494	65835	6	12°523	9°638
				65614	12	5°608	3°342	65688	11	11°977	5°147	65762	11	9°437	7°662	65836	21	13°653	9°215
				65615*	47	6°483	3°323	65689	18	12°396	5°024	65763	10	9°720	7°933	65837	7	13°907	9°014
				65616	9	6°791	3°804	65690	14	12°408	5°195	65764	19	11°083	7°648	65838*	35	15°935	9°351
				65617	6	7°383	3°750	65691											

65845	10	22°673	9°835	65919	10	9°082	12°412	65993	13	25°344	14°116	66067	7	3°637	17°867	66141	8	7°545	19°389
65846	22	23°398	9°424	65920	31	9°860	12°411	65994	19	0°052	15°640	66068	12	4°414	17°095	66142	24	8°527	19°349
65847	15	24°754	9°527	65921	13	10°541	12°292	65995	17	0°497	15°144	66069	18	5°558	17°379	66143	15	9°405	19°592
65848	7	25°503	9°830	65922	12	11°246	12°007	65996*	26	1°783	15°286	66070	14	5°573	17°190	66144	11	9°442	19°087
65849	24	25°983	9°327	65923	11	12°353	12°502	65997	9	1°971	15°795	66071	8	5°762	17°894	66145	12	10°046	19°233
65850	7	0°289	10°469	65924	13	12°493	12°501	65998	7	2°201	15°374	66072	8	6°358	17°564	66146	8	10°459	19°802
65851	14	0°835	10°677	65925	15	13°569	12°250	65999	7	2°640	15°893	66073*	28	6°440	17°005	66147	21	10°929	19°017
65852	7	2°454	10°015	65926*	19	14°836	12°028	66000	9	3°552	15°974	66074	17	6°444	17°118	66148	12	11°034	19°976
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65854	9	3°291	10°261	65928	13	18°805	12°037	66002	8	4°547	15°596	66076*	36	8°954	17°981	66150	12	12°866	19°083
65855	6	4°093	10°263	65929	7	18°975	12°556	66003*	37	4°762	15°407	66077	22	9°444	17°209	66151	16	14°387	19°669
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65859	8	7°063	10°763	65933	10	23°238	12°309	66007*	50	7°359	15°283	66081	7	13°413	17°397	66155	13	17°233	19°027
65860	7	9°479	10°501	65934	15	23°786	12°274	66008	6	7°757	15°059	66082	13	16°315	17°338	66156	18	18°670	19°166
65861	9	10°604	10°057	65935	11	24°659	12°014	66009	7	7°913	15°242	66083	14	16°803	17°879	66157	7	19°074	19°747
65862	18	10°862	10°069	65936	13	0°235	13°816	66010	19	8°190	15°086	66084	10	17°449	17°584	66158	7	19°851	19°479
65863	14	11°355	10°894	65937	23	0°403	13°532	66011	8	8°220	15°300	66085	9	17°768	17°487	66159	15	20°142	19°517
65864	16	13°888	10°458	65938	12	0°783	13°541	66012	21	10°774	15°471	66086	6	18°463	17°786	66160	12	21°573	19°082
65865	10	14°371	10°100	65939	20	1°502	13°966	66013	9	10°797	15°104	66087	13	18°485	17°529	66161	11	21°764	19°895
65866	13	15°530	10°595	65940	8	2°825	13°946	66014	6	11°490	15°165	66088	8	19°022	17°419	66162	6	22°237	19°236
65867	13	15°681	10°740	65941	12	5°320	13°310	66015*	24	13°365	15°376	66089	11	19°025	17°227	66163	12	24°422	19°551
65868	31	15°902	10°346	65942	6	5°672	13°271	66016	7	15°234	15°270	66090	22	19°926	17°245	66164*	33	24°661	19°832
65869	9	15°904	10°427	65943	26	7°444	13°343	66017	19	17°241	15°152	66091	13	20°014	17°035	66165*	27	24°948	19°209
65870*	67	18°907	10°248	65944	12	9°372	13°052	66018	14	17°964	15°241	66092	19	20°262	17°383	66166	11	25°224	19°563
65871	16	19°710	10°209	65945	31	9°429	13°169	66019	14	17°966	15°754	66093	9	20°925	17°034	66167	14	0°185	20°636
65872	18	19°728	10°731	65946	14	13°738	13°796	66020	11	18°051	15°095	66094	10	22°389	17°561	66168	16	1°317	20°757
65873	6	20°293	10°957	65947	15	14°014	13°208	66021*	33	18°916	15°906	66095	18	22°693	17°852	66169	10	1°500	20°866
65874	7	21°454	10°016	65948	14	14°302	13°668	66022	20	18°917	15°923	66096	12	22°894	17°889	66170	11	1°756	20°650
65875	30	21°847	10°639	65949*	37	14°728	13°742	66023	13	19°515	15°132	66097	24	23°410	17°499	66171	8	2°152	20°090
65876	9	23°352	10°836	65950	14	17°181	13°933	66024	31	20°172	15°028	66098	10	23°492	17°356	66172	19	3°629	20°907
65877	21	23°749	10°967	65951	7	19°770	13°548	66025	9	20°387	15°742	66099	9	23°994	17°049	66173	8	4°183	20°309
65878	13	25°520	10°219	65952	8	19°792	13°403	66026	13	20°797	15°401	66100	15	24°135	17°594	66174*	23	4°271	20°304
65879	13	25°595	10°158	65953	7	23°533	13°060	66027	22	21°335	15°548	66101	21	24°227	17°647	66175	24	4°987	20°233
65880	12	0°954	11°676	65954	13	24°177	13°398	66028*	33	21°464	15°092	66102*	50	24°592	17°432	66176	8	6°087	20°461
65881	14	1°066	11°404	65955*	18	1°036	14°337	66029	20	22°055	15°747	66103	9	25°312	17°543	66177	10	6°575	20°744
65882	13	2°224	11°341	65956	11	1°378	14°410	66030	8	22°287	15°353	66104	13	2°806	18°252	66178	13	6°682	20°073
65883	8	3°061	11°614	65957*	27	1°938	14°103	66031	12	23°193	15°022	66105	11	3°513	18°874	66179	21	7°064	20°523
65884	13	4°516	11°393	65958	13	2°301	14°579	66032	13	23°392	15°769	66106	7	3°828	18°157	66180	19	7°438	20°296
65885	14	9°415	11°086	65959	17	2°917	14°037	66033	9	24°367	15°141	66107	15	4°173	18°995	66181	6	8°298	20°914
65886	20	11°832	11°262	65960	8	3°359	14°489	66034	15	24°484	15°624	66108	14	4°463	18°544	66182	25	8°827	20°897
65887	10	11°949	11°747	65961	20	3°420	14°804	66035	9	24°826	15°417	66109	6	5°462	18°897	66183	8	8°923	20°118
65888	11	13°083	11°435	65962	12	3°787	14°421	66036	9	24°829	15°426	66110	12	5°976	18°496	66184	13	10°076	20°441
65889	13	13°412	11°008	65963	12	4°057	14°682	66037	13	25°138	15°559	66111	14	6°192	18°708	66185	7	10°390	20°883
65890	11	14°299	11°465	65964	15	4°264	14°459	66038	14	0°624	16°153	66112	8	7°454	18°477	66186	30	10°576	20°043
65891	16	16°028	11°078	65965	8	4°566	14°996	66039	7	1°099	16°452	66113	10	8°307	18°934	66187	13	11°601	20°674
65892	21	16°042	11°796	65966	13	5°335	14°537	66040	6	2°090	16°541	66114	7	10°286	18°394	66188	11	11°783	20°209
65893	19	16°251	11°691	65967	24	5°517	14°675	66041	6	4°967	16°187	66115	11	12°735	18°535	66189*	37	12°638	20°756
65894	11	17°046	11°690	65968	12	5°595	14°912	66042	13	6°041	16°235	66116	13	16°470	18°831	66190	14	12°823	20°514
65895	9	17°189	11°992	65969	7	6°291	14°844	66043	14	7°568	16°087	66117	18	17°656	18°321	66191*	24	12°855	20°210
65896	10	17°473	11°750	65970	15	8°736	14°883	66044	11	8°316	16°971	66118	19	17°716	18°259	66192	9	13°406	20°440
65897	13	17°938	11°669	65971	14	8°889	14°637	66045	10	8°324	16°422	66119	10	17°905	18°371	66193	7	13°574	20°376
65898	17	18°563	11°228	65972	19	9°704	14°249	66046	9	10°307	16°788	66120	8	18°531	18°733	66194	8	14°005	20°539
65899	6	19°643	11°076	65973	12	10°853	14°899	66047	12	10°864	16°233	66121	17	18°869	18°716	66195*	37	14°023	20°884
65900	12	20°892	11°853	65974	29	11°173	14°014	66048	11	12°189	16°087	66122*	23	18°995	18°263	66196	7	14°387	20°258
65901	23	21°718	11°227	65975	11	12°706	14°195	66049	15	15°181	16°922	66123	18	19°548	18°477	66197	6	14°918	20°447
65902	22	22°788	11°506	65976	6	13°131	14°896	66050	8	15°553	16°917	66124	9	21°538	18°154	66198	11	15°208	20°728
65903	13	24°486	11°895	65977	7	13°257	14°387	66051	23	16°431	16°065	66125	14	22°506	18°405	66199	7	15°259	20°370
65904	6	24°671	11°884	65978	13	14°148	14°439	66052	14	16°856	16°444	66126	9	24°585	18°996	66200	9	18°136	20°585
65905	16	24°902	11°618	65979	14	15°446	14°247	66053*	46	17°564	16°093	66127*	18	25°488	18°568	66201	7	18°547	20°627
65906	24	24°943	11°504	65980*	34	15°923	14°158	66054	9	17°995	16°915	66128	8	0°041	19°092	66202	24	18°781	20°126
65907	11	24°970	11°003	65															

66215	14	8°095	21°507	66289	8	16°440	23°098	66457	31	2°402	1°310	66531	10	22°391	2°769
66216	11	8°142	21°391	66290	14	17°470	23°984	66458	25	3°874	1°264	66532	12	23°244	2°619
66217	9	8°174	21°298	66291	14	18°016	23°425	66459	19	4°707	1°977	66533	14	23°307	2°450
66218	8	8°565	21°776	66292	11	18°181	23°340	66460	16	4°831	1°574	66534	13	23°453	2°188
66219	21	8°777	21°513	66293	10	18°376	23°138	66461	15	6°344	1°880	66535*	24	23°521	2°176
66220	8	9°361	21°186	66294*	18	19°492	23°351	66462	14	6°392	1°140	66536	12	23°876	2°201
66221	26	10°841	21°391	66295	13	20°273	23°560	66463	18	6°974	1°522	66537	11	24°062	2°982
66222	12	10°913	21°223	66296	7	20°487	23°824	66464	15	7°181	1°840	66538	12	24°496	2°421
66223*	22	11°074	21°882	66297	8	20°738	23°302	66465	14	7°645	1°985	66539	22	1°283	3°729
66224	14	11°166	21°259	66298*	37	21°160	23°327	66466	13	8°006	1°755	66540	22	1°568	3°273
66225	9	14°299	21°569	66299	14	21°280	23°221	66467	11	8°050	1°032	66541	23	1°733	3°137
66226	10	15°957	21°867	66300	14	22°281	23°388	66468	14	8°306	1°005	66542	18	2°159	3°998
66227	16	17°004	21°766	66301	7	22°481	23°117	66469	15	8°583	1°143	66543	21	2°202	3°993
66228	21	17°186	21°399	66302	8	24°866	23°876	66470	13	8°683	1°617	66544	13	2°430	3°828
66229	17	17°198	21°488	66303	11	25°714	23°756	66471	14	8°852	1°211	66545	25	3°177	3°494
66230	13	18°430	21°838	66304	13	0°304	24°417	66472	18	9°428	1°162	66546*	33	3°301	3°387
66231	10	19°215	21°526	66305	9	1°368	24°576	66473	13	9°727	1°562	66547	13	3°608	3°791
66232	8	20°429	21°263	66306	9	2°794	24°591	66474	18	10°187	1°928	66548*	40	5°594	3°688
66233	12	20°559	21°097	66307	11	4°151	24°338	66475	15	10°413	1°534	66549	11	5°935	3°861
66234	13	22°447	21°575	66308	12	5°626	24°186	66476	14	10°828	1°101	66550	14	6°044	3°889
66235	7	24°280	21°038	66309	23	7°374	24°346	66477	16	11°534	1°783	66551	12	6°340	3°245
66236	12	25°216	21°439	66310*	27	8°842	24°832	66478	11	11°673	1°360	66552	22	6°970	3°299
66237	14	25°895	21°004	66311	13	10°245	24°913	66479*	27	12°415	1°767	66553	12	7°592	3°176
66238	15	1°888	22°271	66312	10	10°352	24°775	66480	17	12°512	1°416	66554	22	7°611	3°955
66239	6	2°744	22°867	66313	12	11°057	24°567	66481	12	14°479	1°124	66555	13	7°845	3°692
66240	7	3°151	22°054	66314	10	11°435	24°467	66482	13	14°882	1°056	66556	10	8°586	3°922
66241	9	3°508	22°508	66315	18	11°705	24°861	66483	12	15°036	1°547	66557	14	9°494	3°543
66242	7	3°986	22°831	66316	19	12°623	24°166	66484	15	15°662	1°787	66558	24	10°130	3°007
66243*	45	4°026	22°604	66317	10	13°522	24°729	66485	11	16°546	1°456	66559	12	11°068	3°592
66244	13	4°185	22°385	66318	11	13°744	24°013	66486	22	17°522	1°669	66560	10	11°221	3°830
66245	7	5°255	22°240	66319	6	14°154	24°397	66487	13	18°385	1°450	66561	12	11°884	3°180
66246	11	6°094	22°076	66320	21	14°224	24°509	66488	13	21°230	1°481	66562	12	12°059	3°530
66247	9	6°352	22°826	66321*	57	14°311	24°993	66489	16	21°394	1°597	66563	13	12°737	3°891
66248	7	6°945	22°117	66322	24	14°404	24°606	66490	21	21°576	1°664	66564	14	12°836	3°084
66249	13	7°966	22°527	66323	9	15°577	24°232	66491	13	22°320	1°909	66565	15	13°138	3°949
66250	21	8°267	22°708	66324*	33	16°051	24°097	66492	17	22°688	1°645	66566	12	13°219	3°890
66251	11	8°304	22°676	66325	10	16°297	24°812	66493	15	23°534	1°503	66567	11	13°224	3°787
66252	18	8°599	22°618	66326	12	18°093	24°128	66494	15	23°539	1°550	66568	22	13°753	3°891
66253	13	9°721	22°732	66327*	22	18°306	24°654	66495	14	24°288	1°154	66569	16	14°542	3°592
66254	10	9°840	22°984	66328*	24	19°415	24°314	66496	18	24°444	1°038	66570	21	15°137	3°787
66255	16	10°135	22°256	66329	17	20°302	24°806	66497	21	24°798	1°470	66571	12	15°139	3°567
66256	11	10°474	22°865	66330	14	20°761	24°394	66498	14	24°996	1°197	66572	22	15°326	3°150
66257*	15	10°479	22°533	66331	13	20°963	24°628	66499	26	0°904	2°044	66573	12	16°305	3°816
66258*	24	13°105	22°742	66332	17	23°013	24°890	66500	14	3°284	2°008	66574	21	16°620	3°352
66259	8	14°047	22°127	66333	7	25°111	24°824	66501	24	5°735	2°344	66575	19	17°180	3°973
66260	16	14°458	22°171	66334	8	1°084	25°511	66502	13	5°740	2°729	66576	10	17°582	3°541
66261	13	14°938	22°444	66335*	34	1°648	25°134	66503	23	6°011	2°644	66577*	35	18°311	3°328
66262	13	15°269	22°486	66336	11	2°763	25°580	66504	14	6°670	2°392	66578	10	18°369	3°359
66263*	19	15°946	22°795	66337	22	3°134	25°825	66505	18	6°835	2°729	66579	10	18°440	3°275
66264*	20	16°277	22°246	66338	8	7°217	25°724	66506	14	6°900	2°707	66580	12	19°757	3°929
66265	9	16°817	22°950	66339	11	9°997	25°452	66507	12	7°258	2°862	66581	16	19°860	3°184
66266	9	17°824	22°786	66340	22	10°093	25°293	66508	24	7°486	2°985	66582	14	21°177	3°415
66267	6	20°507	22°470	66341	13	12°527	25°813	66509	19	7°887	2°124	66583	13	22°699	3°430
66268	15	21°362	22°613	66342	24	12°628	25°505	66510	11	10°196	2°798	66584	11	23°475	3°751
66269	6	21°512	22°088	66343	11	12°666	25°489	66511	11	11°860	2°022	66585	15	23°692	3°146
66270	8	21°961	22°040	66344*	43	13°198	25°914	66512	12	14°219	2°610	66586*	22	23°762	3°974
66271	24	23°992	22°568	66345	9	13°429	25°121	66513	13	14°246	2°072	66587	11	23°861	3°258
66272	10	24°321	22°520	66346	13	14°633	25°425	66514	12	14°251	2°064	66588	10	24°506	3°841
66273	13	0°096	23°491	66347*	21	15°754	25°386	66515	12	14°300	2°272	66589	15	24°704	3°966
66274	12	0°553	23°282	66348	15	15°800	25°228	66516	14	14°309	2°494	66590	13	25°150	3°544
66275	7	2°894	23°936	66349	14	15°908	25°154	66517	11	15°799	2°839	66591	10	25°164	3°106
66276	19	2°922	23°039	66350	12	15°973	25°447	66518	11	16°320	2°269	66592	14	25°815	3°029
66277	7	4°854	23°173	66351*	28	17°945	25°089	66519	13	16°377	2°317	66593	26	0°490	4°800
66278	9	4°923	23°984	66352	24	18°492	25°054	66520	12	17°420	2°829	66594	29	0°666	4°618
66279	8	5°427	23°184	66353	23	19°407	25°006	66521	10	17°747	2°144	66595	12	4°208	4°618
66280	13	7°056	23°011	66354*	19	21°514	25°260	66522	22	17°820	2°839	66596	14	5°049	4°773
66281	9	8°080	23°956	66355	26	21°776	25°549	66523	11	18°952	2°456	66597	16	5°955	4°496
66282	12	8°608	23°269	66356	8	23°892	25°508	66524	12	20°403	2°910	66598	14	5°976	4°980
66283	14	9°913	23°916	66357	13	24°389	25°897	66525	19	21°067	2°301	66599	11	6°053	4°575
66284*	40	10°326	23°919	66358	22	24°638	25°731	66526	14	21°129	2°244	66600	20	6°225	4°452
66285	19	10°922	23°732	66359	7	25°378	25°198	66527	10	21°329	2°883	66601	12	6°558	4°709
66286	6	12°271	23°670	66360	10	25°713	25°258	66528	11	21°563	2°533	66602	15	7°487	4°806
66287	24	12°304	23°394					66529	13	21°764	2°262	66603	12	7°915	4°176
66288	12	12°859	23°538					66530	10	22°133	2°162	66604	13	8°756	4°150

66605	23	8'972	4'260	66679*	58	14'370	5'376	66753	28	2'051	7'908	66827	12	21'760	8'020	66901	11	23'444	10'330
66606	14	10'696	4'743	66680	12	14'390	5'964	66754	22	2'600	7'074	66828	16	21'809	8'483	66902	11	23'477	10'961
66607	16	10'713	4'752	66681	10	14'617	5'663	66755	12	2'709	7'191	66829	12	22'638	8'493	66903	11	23'711	10'375
66608	22	10'756	4'535	66682	11	16'517	5'084	66756	15	2'764	7'934	66830	13	23'300	8'640	66904	13	24'034	10'117
66609	13	11'522	4'789	66683	12	16'660	5'830	66757	12	2'800	7'863	66831	10	23'474	8'200	66905	22	24'238	10'816
66610	13	11'765	4'294	66684	12	16'672	5'191	66758	13	3'942	7'150	66832	11	23'968	8'345	66906	10	24'450	10'708
66611	14	12'425	4'296	66685	20	16'757	5'530	66759	13	4'027	7'343	66833	10	24'155	8'356	66907	15	24'460	10'008
66612	12	12'464	4'800	66686	12	17'228	5'797	66760	14	4'526	7'968	66834	22	0'486	9'415	66908	10	24'464	10'132
66613	21	12'540	4'244	66687	21	17'886	5'606	66761	14	4'607	7'098	66835	21	0'618	9'509	66909	12	24'466	10'841
66614	22	12'841	4'835	66688	12	18'184	5'253	66762	16	4'969	7'309	66836	12	0'989	9'627	66910	26	0'046	11'027
66615*	30	13'078	4'660	66689	11	18'190	5'090	66763	22	5'199	7'186	66837	13	1'603	9'836	66911	24	1'119	11'294
66616	12	13'097	4'364	66690	12	18'216	5'430	66764	14	5'733	7'632	66838	24	1'710	9'209	66912	13	2'819	11'670
66617	11	13'721	4'056	66691	11	18'238	5'542	66765	11	5'826	7'516	66839	17	3'066	9'300	66913	13	2'994	11'789
66618	14	13'762	4'165	66692	10	19'031	5'566	66766	12	6'661	7'949	66840	14	3'434	9'461	66914	15	3'232	11'389
66619	14	14'081	4'846	66693	12	20'887	5'792	66767	10	6'846	7'250	66841	13	3'816	9'599	66915	23	3'270	11'275
66620	12	14'372	4'689	66694	24	20'935	5'570	66768	12	7'683	7'307	66842	14	3'839	9'988	66916	21	3'780	11'222
66621	13	14'659	4'427	66695	19	21'040	5'856	66769*	48	8'190	7'493	66843	13	3'914	9'924	66917	10	3'900	11'481
66622	13	15'795	4'320	66696	14	21'144	5'174	66770	21	8'217	7'534	66844	23	4'293	9'090	66918	11	4'226	11'040
66623	10	15'934	4'689	66697	18	21'932	5'016	66771	22	8'786	7'519	66845	12	4'324	9'224	66919	17	5'585	11'447
66624	12	16'353	4'720	66698	11	22'546	5'537	66772	23	10'097	7'651	66846	12	7'409	9'961	66920	12	6'293	11'347
66625	11	16'894	4'606	66699	11	23'800	5'355	66773	22	13'793	7'272	66847	13	8'296	9'241	66921	20	6'724	11'763
66626	12	17'018	4'072	66700	12	24'265	5'132	66774	12	14'357	7'056	66848	17	8'897	9'520	66922	12	6'750	11'647
66627	22	17'675	4'856	66701	11	24'711	5'729	66775	24	14'486	7'960	66849	23	8'950	9'911	66923	16	6'873	11'946
66628	14	18'356	4'727	66702	12	25'052	5'144	66776	24	15'210	7'872	66850*	26	9'226	9'444	66924	21	7'511	11'581
66629	13	18'629	4'242	66703	10	25'890	5'747	66777	15	15'657	7'598	66851	18	9'749	9'533	66925	11	8'654	11'959
66630	10	18'653	4'241	66704*	24	1'634	6'500	66778	13	15'819	7'970	66852	16	11'630	9'770	66926	14	8'919	11'980
66631	13	18'916	4'333	66705	17	1'829	6'381	66779	22	15'877	7'412	66853	15	11'688	9'543	66927	18	9'279	11'265
66632	16	19'687	4'364	66706	26	1'850	6'638	66780	15	17'485	7'616	66854	26	11'745	9'163	66928	13	9'340	11'492
66633	12	19'722	4'191	66707	16	2'174	6'019	66781	14	17'983	7'087	66855	28	15'774	9'840	66929	15	9'449	11'853
66634	11	21'231	4'682	66708	13	3'051	6'976	66782	12	18'084	7'763	66856	17	16'395	9'059	66930	17	12'374	11'821
66635	16	21'647	4'804	66709	12	3'546	6'944	66783	13	18'407	7'513	66857	13	17'161	9'086	66931	18	12'532	11'500
66636	12	21'904	4'403	66710	24	4'750	6'916	66784	18	18'600	7'228	66858	16	17'621	9'154	66932	22	15'430	11'219
66637	16	22'075	4'626	66711	11	5'738	6'254	66785	10	19'750	7'042	66859	15	19'094	9'659	66933	22	16'690	11'164
66638	12	22'449	4'742	66712	12	6'261	6'485	66786	11	21'723	7'622	66860	11	21'409	9'336	66934	21	17'633	11'717
66639*	22	22'992	4'130	66713	14	6'716	6'423	66787	10	21'752	7'769	66861	27	23'840	9'617	66935	12	19'816	11'260
66640	11	23'956	4'374	66714	21	7'348	6'857	66788	12	22'900	7'644	66862	12	24'064	9'594	66936	21	20'188	11'775
66641	11	24'063	4'534	66715	11	7'401	6'711	66789	10	22'975	7'939	66863	22	24'330	9'302	66937	13	22'451	11'075
66642	12	25'241	4'766	66716	11	7'800	6'321	66790	16	23'500	7'160	66864	16	24'404	9'592	66938	14	22'599	11'986
66643	22	25'265	4'920	66717	10	8'053	6'747	66791	12	23'905	7'342	66865	13	24'861	9'648	66939	13	23'466	11'380
66644	13	25'774	4'891	66718	12	8'254	6'876	66792	14	23'955	7'025	66866	11	25'019	9'076	66940	12	23'822	11'040
66645	13	25'793	4'207	66719	14	8'649	6'282	66793	10	24'141	7'316	66867	13	25'521	9'551	66941	20	0'288	12'649
66646	14	0'311	5'311	66720	21	9'233	6'520	66794	12	24'584	7'958	66868	12	25'746	9'373	66942	14	1'574	12'094
66647	26	0'574	5'470	66721	13	9'829	6'386	66795	22	25'084	7'708	66869	29	0'170	10'436	66943	21	2'124	12'055
66648	22	0'822	5'475	66722	18	10'555	6'753	66796	10	25'418	7'601	66870	16	1'675	10'620	66944*	33	4'929	12'280
66649	27	2'000	5'628	66723	12	11'637	6'130	66797	10	25'510	7'572	66871	22	2'077	10'749	66945	12	4'984	12'039
66650	13	2'561	5'520	66724	15	12'672	6'113	66798	23	0'035	8'762	66872	14	3'296	10'774	66946	13	6'327	12'654
66651	18	3'039	5'080	66725	22	13'655	6'066	66799	13	2'081	8'024	66873	11	3'838	10'240	66947	15	6'930	12'444
66652	14	3'324	5'866	66726	13	13'936	6'635	66800	22	2'843	8'280	66874	12	4'040	10'770	66948	10	8'069	12'070
66653	17	3'370	5'994	66727	15	14'320	6'711	66801	26	3'847	8'759	66875	14	4'957	10'657	66949	18	9'254	12'362
66654	16	3'820	5'562	66728	18	14'330	6'139	66802	14	4'592	8'280	66876	13	5'580	10'586	66950	16	9'407	12'220
66655	13	4'027	5'616	66729	12	15'131	6'218	66803	19	4'719	8'386	66877	20	5'774	10'710	66951	15	9'981	12'274
66656	15	4'914	5'447	66730	15	15'520	6'795	66804	22	4'734	8'834	66878	13	5'922	10'289	66952	13	11'422	12'396
66657	14	5'004	5'033	66731	14	15'912	6'400	66805	14	6'123	8'717	66879	9	5'963	10'352	66953	22	12'584	12'707
66658	11	5'722	5'640	66732	22	16'056	6'523	66806	12	6'130	8'946	66880	12	6'673	10'051	66954	14	13'417	12'668
66659	11	5'738	5'319	66733	12	18'543	6'962	66807	22	6'507	8'491	66881	13	7'140	10'180	66955	15	13'550	12'264
66660	12	5'900	5'986	66734	10	18'689	6'323	66808	12	6'718	8'810	66882	11	7'216	10'532	66956	19	14'073	12'468
66661	14	6'027	5'490	66735	12	18'757	6'549	66809	12	6'951	8'414	66883	15	8'382	10'844	66957	28	14'128	12'069
66662	15	6'960	5'919	66736	20	19'379	6'994	66810	11	7'019	8'072	66884	13	8'837	10'230	66958	17	17'706	12'344
66663	11	7'046	5'434	66737	12	20'851	6'748	66811	11	7'605	8'867	66885*	26	9'762	10'784	66959	22	17'984	12'810
66664	12	7'442	5'687	66738	10	20'990	6'364	66812	10	8'045	8'897	66886	13	11'426	10'013	66960	14	18'377	12'989
66665	13	7'468	5'090	66739	11	21'204	6'610	66813	22	8'266	8'031	66887	18	12'613	10'347	66961	17	18'759	12'755
66666	11	7'546	5'124	66740	10	21'322	6'309	66814	13	8'701	8'460	66888	18	14'089	10'389	66962	14	20'892	12'241
66667	13	8'493	5'378	66741	13	21'419	6'420	66815	12	8'915	8'255	66889	13	14'176	10'580	66963	13	21'899	12'812
66668																			

66975	15	25°621	12°387	67049	18	23°029	14°449	67123	20	6°255	16°051	67197	13	18°304	17°869	67271	11	5°080	19°311
66976	22	0°470	13°970	67050	10	24°156	14°887	67124	12	7°527	16°138	67198	20	18°466	17°150	67272	12	5°296	19°604
66977	12	2°273	13°970	67051	20	24°181	14°613	67125	10	7°740	16°572	67199*	60	18°471	17°080	67273	10	5°731	19°265
66978	18	2°524	13°175	67052	12	24°265	14°671	67126	13	9°021	16°210	67200	13	19°285	17°682	67274	10	6°406	19°694
66979	13	3°598	13°870	67053	10	24°640	14°878	67127	10	9°370	16°793	67201	13	19°536	17°781	67275	11	7°651	19°163
66980	14	3°694	13°882	67054	16	25°049	14°900	67128	16	9°519	16°249	67202	22	19°830	17°855	67276	15	7°802	19°315
66981	10	4°659	13°741	67055	25	0°421	15°545	67129	13	9°798	16°964	67203	11	19°839	17°314	67277	10	9°081	19°433
66982	11	4°989	13°603	67056	13	1°689	15°277	67130*	120	10°303	16°441	67204	10	20°786	17°725	67278	9	9°815	19°285
66983	12	5°044	13°465	67057	20	1°757	15°552	67131	12	10°685	16°487	67205	12	20°980	17°581	67279	12	10°384	19°266
66984	21	5°456	13°812	67058	15	2°296	15°770	67132	21	11°193	16°907	67206	11	21°709	17°647	67280	14	11°446	19°195
66985*	24	6°464	13°641	67059	14	2°849	15°399	67133*	25	11°356	16°490	67207	12	21°955	17°315	67281	9	11°711	19°736
66986	12	8°584	13°916	67060	13	3°190	15°189	67134	14	12°394	16°707	67208	15	22°424	17°370	67282	12	11°737	19°938
66987	16	8°618	13°011	67061	12	3°194	15°198	67135	13	13°744	16°591	67209	12	22°541	17°457	67283*	39	13°548	19°799
66988*	22	8°957	13°556	67062	14	3°506	15°327	67136	21	14°923	16°215	67210	14	22°852	17°865	67284	22	13°627	19°536
66989	28	9°196	13°195	67063	11	3°883	15°572	67137	19	16°525	16°444	67211	10	23°436	17°922	67285	26	15°150	19°460
66990	22	9°210	13°922	67064	13	4°470	15°305	67138	18	16°926	16°170	67212	17	23°620	17°676	67286	12	15°601	19°612
66991	10	9°776	13°507	67065*	24	4°662	15°934	67139	14	18°200	16°380	67213	22	24°288	17°460	67287	12	15°762	19°770
66992	16	12°586	13°190	67066*	29	4°881	15°644	67140*	40	18°669	16°722	67214	12	24°515	17°241	67288	14	16°150	19°279
66993	22	12°662	13°107	67067	14	4°906	15°516	67141	15	19°279	16°089	67215	15	25°423	17°612	67289	13	17°709	19°936
66994	12	12°744	13°076	67068	12	5°008	15°551	67142	20	19°490	16°572	67216	10	25°581	17°894	67290	12	18°239	19°550
66995	24	13°178	13°364	67069	12	5°135	15°035	67143	12	19°833	16°366	67217	22	0°899	18°195	67291	10	18°350	19°207
66996*	24	13°315	13°522	67070	13	5°224	15°120	67144	13	19°892	16°138	67218	11	2°983	18°773	67292	10	18°500	19°578
66997	12	13°831	13°607	67071	14	5°680	15°264	67145	20	20°704	16°016	67219*	26	3°345	18°980	67293	13	19°408	19°689
66998	19	15°596	13°649	67072	16	5°832	15°940	67146	17	20°739	16°309	67220	10	3°796	18°206	67294	13	20°561	19°150
66999	12	15°672	13°794	67073	12	5°896	15°435	67147	14	21°028	16°144	67221*	19	3°880	18°334	67295	12	21°613	19°573
67000	22	15°941	13°109	67074	22	5°935	15°190	67148	12	21°440	16°552	67222	11	5°070	18°806	67296	13	22°233	19°257
67001	13	16°126	13°377	67075	14	7°239	15°811	67149	10	21°925	16°499	67223	10	5°449	18°478	67297	14	22°693	19°606
67002	20	16°134	13°410	67076	11	7°470	15°844	67150	11	22°389	16°626	67224	11	5°693	18°200	67298	12	22°739	19°730
67003	19	16°930	13°840	67077	11	7°482	15°971	67151	10	22°549	16°134	67225	19	6°190	18°580	67299	10	22°988	19°510
67004	22	18°315	13°688	67078	10	7°621	15°435	67152	14	22°840	16°788	67226	14	6°363	18°971	67300	13	23°690	19°392
67005	22	18°674	13°791	67079	15	8°190	15°535	67153	12	22°938	16°233	67227	17	6°486	18°065	67301	14	23°720	19°252
67006	15	18°782	13°007	67080	14	9°400	15°459	67154	11	23°826	16°360	67228*	22	6°734	18°750	67302	10	24°671	19°494
67007	13	19°286	13°710	67081	10	11°581	15°371	67155	13	23°840	16°533	67229	14	7°059	18°844	67303	14	25°170	19°802
67008	12	20°377	13°403	67082	19	12°096	15°689	67156	12	23°891	16°181	67230	12	7°107	18°806	67304	12	25°209	19°704
67009	14	20°866	13°021	67083	13	12°272	15°123	67157	12	24°310	16°521	67231	12	8°646	18°740	67305	22	0°565	20°767
67010	21	21°030	13°479	67084	19	13°556	15°250	67158*	23	24°385	16°630	67232	14	9°116	18°979	67306*	29	1°396	20°281
67011	20	21°062	13°524	67085	15	14°104	15°070	67159*	20	24°480	16°706	67233	13	9°595	18°255	67307	22	2°783	20°040
67012	13	21°150	13°920	67086*	33	14°143	15°969	67160	13	24°606	16°055	67234	11	10°895	18°666	67308	20	3°319	20°509
67013	21	22°201	13°466	67087	15	15°683	15°430	67161	12	24°615	16°759	67235	13	11°090	18°552	67309	18	4°310	20°767
67014	14	22°599	13°920	67088	21	16°514	15°407	67162	12	24°846	16°546	67236	9	12°722	18°709	67310	12	4°916	20°375
67015	12	23°506	13°797	67089	19	17°093	15°911	67163	11	24°890	16°930	67237	10	12°777	18°790	67311	18	5°866	20°602
67016	13	23°770	13°309	67090	16	17°131	15°825	67164	12	25°521	16°679	67238	14	13°348	18°274	67312	20	6°575	20°950
67017	11	24°792	13°470	67091	13	17°408	15°363	67165	22	0°772	17°355	67239	10	14°353	18°568	67313	10	7°533	20°081
67018	11	25°030	13°241	67092*	32	17°692	15°212	67166	24	1°079	17°642	67240	12	14°591	18°396	67314	9	8°630	20°151
67019	11	25°593	13°594	67093*	33	18°357	15°426	67167	22	1°280	17°679	67241	14	14°643	18°214	67315	12	9°060	20°216
67020	13	25°655	13°136	67094	14	18°930	15°255	67168	28	1°794	17°884	67242	13	15°535	18°420	67316	21	9°183	20°091
67021	9	25°775	13°710	67095	13	19°509	15°909	67169	14	1°873	17°137	67243	22	15°572	18°286	67317*	22	9°609	20°650
67022	15	25°784	13°637	67096	13	20°146	15°734	67170	18	2°520	17°372	67244	10	16°153	18°848	67318*	26	11°373	20°008
67023	20	0°317	14°756	67097	22	20°445	15°057	67171	23	2°614	17°426	67245	13	16°782	18°904	67319*	22	12°109	20°384
67024	17	0°481	14°020	67098	15	20°466	15°716	67172*	48	2°973	17°205	67246	12	17°209	18°455	67320	14	12°240	20°044
67025	14	1°554	14°807	67099	12	22°217	15°837	67173	12	3°694	17°312	67247	12	17°352	18°150	67321	13	12°246	20°209
67026	13	2°380	14°013	67100	13	22°773	15°149	67174	11	3°715	17°659	67248	11	17°933	18°607	67322	12	12°839	20°208
67027	13	2°729	14°917	67101	11	22°830	15°893	67175	12	5°014	17°630	67249	10	18°796	18°570	67323	12	13°109	20°057
67028	24	2°870	14°769	67102	15	22°874	15°920	67176	12	6°043	17°948	67250	12	18°884	18°591	67324	13	13°194	20°333
67029	10	3°407	14°692	67103	11	23°081	15°790	67177*	27	6°416	17°370	67251	12	19°928	18°200	67325	11	14°467	20°652
67030	19	5°007	14°855	67104	10	23°704	15°201	67178	9	6°757	17°693	67252	13	20°300	18°834	67326	10	15°284	20°623
67031	17	7°333	14°637	67105	9	23°808	15°007	67179	16	8°472	17°882	67253	14	21°176	18°964	67327	14	15°340	20°924
67032	10	8°193	14°364	67106	14	23°969	15°340	67180	11	8°837	17°995	67254	11	21°304	18°160	67328	9	15°507	20°533
67033	24	9°176	14°031	67107	12	24°453	15°062	67181	15	9°170	17°374	67255	18	21°373	18°900	67329	10	16°496	20°190
67034	14	11°769	14°949	67108*	22	24°720	15°919	67182	17	9°348	17°630	67256	14	21°738	18°049	67330	12	17°240	20°487
67035	22	13°364	14°766	67109	12	25°121	15°796	67183	13	10°104	17°449	67257	13	22°419	18°650	67331	18	17°382	20°183
67036	12	14°612	14°470	67110	10	25°456	15°390	67184	17	10°533	17°286	67258	11	23°050	18°581</				

67345	10	21°78'1	20°36'8	67419	12	11°15'0	22°35'6	67493	14	22°35'0	23°88'3	67567	29	14°78'6	25°9'19	67635	26	0°76'4	1°56'0
67346	9	21°86'4	20°9'11	67420	11	12°17'4	22°8'01	67494	12	22°56'8	23°45'9	67568	12	15°10'7	25°7'73	67636	22	2°87'4	1°35'3
67347	12	22°0'11	20°4'55	67421	18	12°7'57	22°28'2	67495	12	23°33'7	23°3'10	67569	12	15°6'14	25°9'55	67637	20	3°06'9	1°08'0
67348	16	22°5'00	20°5'59	67422	10	13°34'7	22°8'70	67496	16	24°18'5	23°2'76	67570	12	15°7'67	25°1'17	67638	12	4°90'5	1°62'7
67349	12	22°8'19	20°6'56	67423	15	13°34'8	22°5'35	67497*	33	24°26'0	23°1'23	67571	11	16°2'88	25°1'30	67639	18	5°77'8	1°82'2
67350	12	23°44'1	20°5'04	67424	12	13°36'4	22°8'79	67498	23	24°85'6	23°8'12	67572*	35	16°5'87	25°7'71	67640*	22	6°83'0	1°40'6
67351	17	23°78'3	20°3'00	67425	12	13°6'98	22°7'42	67499*	24	25°43'1	23°2'02	67573	14	16°9'50	25°9'44	67641	15	6°96'0	1°23'3
67352	13	23°96'7	20°6'31	67426	12	14°2'16	22°7'10	67500	13	25°5'12	23°8'06	67574	12	17°1'27	25°5'90	67642	10	7°73'5	1°36'0
67353	20	24°08'9	20°6'17	67427	10	14°25'3	22°49'1	67501	27	1°46'0	24°68'2	67575	19	17°88'5	25°9'58	67643	24	7°83'3	1°14'7
67354	12	24°26'1	20°7'30	67428	10	14°76'4	22°0'57	67502	17	3°55'6	24°59'6	67576	11	18°68'4	25°4'55	67644	22	7°84'4	1°53'0
67355	10	24°43'0	20°15'1	67429	12	15°12'1	22°6'44	67503	20	3°82'7	24°97'0	67577	14	18°75'5	25°7'69	67645	27	8°40'5	1°98'5
67356	11	24°63'3	20°17'4	67430	10	15°20'7	22°0'51	67504	24	4°55'9	24°07'2	67578	12	19°38'8	25°9'79	67646	10	8°68'2	1°76'4
67357	20	25°38'3	20°7'97	67431	13	15°37'4	22°8'06	67505	18	6°29'4	24°25'7	67579	15	19°96'5	25°1'56	67647	16	10°59'2	1°95'5
67358	11	25°60'1	20°2'19	67432	12	16°47'8	22°17'3	67506	22	7°15'3	24°94'8	67580	18	21°95'6	25°94'1	67648	10	10°62'1	1°93'6
67359	21	0°86'8	21°37'0	67433	9	16°53'9	22°03'1	67507	12	7°26'7	24°54'9	67581	19	23°01'6	25°46'5	67649	10	11°59'6	1°46'2
67360	15	2°78'8	21°22'9	67434	15	17°04'4	22°90'6	67508	18	7°49'8	24°30'1	67582	18	25°12'5	25°45'1	67650	13	11°94'2	1°54'7
67361	21	3°63'5	21°20'6	67435	14	17°14'4	22°32'4	67509	10	9°35'9	24°36'0	67583	15	25°21'2	25°02'6	67651	12	12°64'4	1°84'5
67362	12	3°88'0	21°36'2	67436	13	17°23'8	22°43'0	67510	21	9°61'0	24°01'0					67652	17	12°68'8	1°62'7
67363	12	4°66'6	21°67'2	67437	18	17°64'0	22°68'4	67511*	20	10°03'6	24°93'1					67653	16	13°35'1	1°84'2
67364	10	6°41'8	21°11'0	67438	13	17°96'1	22°55'0	67512	15	10°76'7	24°86'0					67654	14	13°94'0	1°27'4
67365	12	6°42'7	21°59'1	67439	15	18°13'0	22°64'6	67513	12	10°78'9	24°96'5					67655	19	14°03'9	1°65'6
67366	11	7°78'1	21°65'2	67440	9	18°30'0	22°02'0	67514	12	10°91'4	24°11'4					67656	12	14°45'0	1°03'7
67367	15	7°94'9	21°66'1	67441	16	18°46'9	22°41'6	67515	11	11°11'2	24°01'1					67657	11	14°74'4	1°14'1
67368	18	8°66'4	21°09'6	67442	11	18°68'8	22°59'2	67516	10	11°23'3	24°56'9					67658	11	14°74'5	1°34'0
67369	12	10°21'5	21°89'4	67443	12	20°26'9	22°47'3	67517	22	11°32'2	24°75'8					67659	10	14°94'9	1°94'9
67370	12	10°35'6	21°90'9	67444	9	20°68'2	22°90'2	67518*	33	11°64'1	24°42'6					67660	14	15°23'8	1°92'0
67371	14	11°92'6	21°93'6	67445*	38	20°70'7	22°59'6	67519	12	12°66'3	24°85'4					67661*	24	15°84'6	1°03'4
67372	14	12°46'6	21°78'7	67446	12	20°81'3	22°90'7	67520	13	13°38'1	24°41'2					67662	21	16°04'2	1°45'7
67373	10	12°98'1	21°68'6	67447	9	20°84'7	22°68'1	67521	17	13°85'7	24°49'9					67663	12	16°42'0	1°77'1
67374	16	13°62'8	21°79'4	67448	10	21°24'4	22°58'0	67522	19	13°89'2	24°08'0					67664	11	19°86'3	1°79'0
67375	10	13°87'7	21°22'6	67449	12	21°42'5	22°22'4	67523	10	13°97'4	24°04'4					67665	22	22°06'4	1°99'1
67376	10	15°91'0	21°87'4	67450	11	22°27'0	22°58'1	67524	17	13°98'6	24°71'2					67666	17	22°75'0	1°84'7
67377	11	15°92'1	21°87'3	67451	16	22°82'9	22°71'0	67525	14	14°68'2	24°67'1					67667	12	22°75'8	1°95'4
67378	16	16°26'0	21°27'8	67452	17	22°86'4	22°65'6	67526	12	15°15'9	24°73'2					67668	21	22°97'3	1°45'7
67379	10	17°59'8	21°97'8	67453	12	22°88'6	22°40'2	67527	19	15°37'0	24°93'3					67669	14	23°01'5	1°17'9
67380	13	17°60'3	21°82'7	67454	14	23°09'5	22°95'0	67528	13	15°53'4	24°19'8					67670	27	25°87'9	1°31'0
67381	10	18°60'0	21°75'3	67455	12	23°38'0	22°57'1	67529	14	16°19'3	24°97'2					67671	22	1°39'4	2°35'5
67382	16	18°74'7	21°55'4	67456	22	23°84'1	22°94'0	67530	11	17°16'4	24°49'9					67672*	30	1°60'8	2°08'2
67383	12	19°09'5	21°09'3	67457	13	24°12'5	22°78'1	67531	11	17°23'8	24°09'7					67673	16	4°44'3	2°00'9
67384	17	19°14'3	21°89'4	67458	19	24°29'7	22°63'9	67532	12	18°49'0	24°78'1					67674	26	6°04'1	2°98'9
67385	12	20°37'8	21°33'0	67459	10	25°57'1	22°20'4	67533	14	18°92'6	24°46'0					67675	13	6°22'3	2°81'4
67386	11	20°51'4	21°47'9	67460	26	0°71'5	23°18'2	67534	12	19°08'5	24°06'8					67676*	68	6°85'4	2°51'0
67387	13	21°04'3	21°40'9	67461	19	3°30'7	23°64'7	67535	14	19°20'1	24°44'9					67677	11	7°77'0	2°70'5
67388	11	21°25'7	21°62'2	67462	19	4°15'3	23°51'9	67536	13	19°34'7	24°82'0					67678	12	8°09'6	2°64'4
67389	12	21°45'9	21°09'9	67463	13	5°02'6	23°21'0	67537	12	19°39'7	24°90'6					67679	16	9°05'0	2°77'9
67390	10	21°50'5	21°45'9	67464	17	5°22'5	23°32'9	67538	10	19°81'9	24°91'1					67680	11	9°27'1	2°64'0
67391	15	22°05'6	21°67'3	67465	13	5°39'9	23°25'8	67539	11	21°13'8	24°58'0					67681	19	9°54'4	2°82'6
67392	13	22°67'5	21°10'4	67466	11	7°59'8	23°46'9	67540	20	21°53'5	24°48'8					67682	13	10°12'1	2°29'2
67393	12	22°88'1	21°24'2	67467	12	7°86'6	23°71'0	67541	19	21°73'6	24°19'0					67683	13	10°46'7	2°97'1
67394	13	22°97'0	21°59'2	67468	17	8°18'0	23°73'1	67542	12	22°01'6	24°38'8					67684	21	10°56'9	2°58'3
67395	13	23°52'9	21°85'5	67469	11	8°19'9	23°76'6	67543	14	22°78'7	24°77'5					67685	14	10°59'3	2°01'5
67396	15	24°04'0	21°15'9	67470	15	8°69'0	23°23'4	67544	13	23°74'1	24°17'2					67686	15	11°75'7	2°15'7
67397	15	24°68'1	21°26'4	67471	18	9°11'2	23°04'5	67545	14	24°91'2	24°35'1					67687	11	12°46'1	2°15'2
67398	14	25°31'5	21°25'9	67472	12	9°17'6	23°09'0	67546*	33	25°28'6	24°21'9					67688	12	13°04'7	2°68'7
67399	27	2°41'7	22°34'6	67473	21	10°09'8	23°51'1	67547	17	25°40'6	24°06'0					67689	10	13°18'3	2°17'3
67400	15	2°42'1	22°31'9	67474	10	10°63'0	23°96'9	67548	29	0°23'0	25°34'8					67690	11	13°44'9	2°56'0
67401	17	2°74'8	22°29'7	67475	11	11°11'3	23°81'2	67549*	40	1°29'7	25°87'0					67691	16	13°56'1	2°21'9
67402	14	3°96'2	22°89'5	67476	13	11°81'5	23°81'8	67550	23	2°85'0	25°67'3					67692	10	13°72'4	2°97'4
67403	15	4°35'0	22°95'6	67477	12	12°55'6	23°10'9	67551	29	3°04'9	25°50'4					67693	13	13°72'9	2°96'6
67404	11	6°03'3	22°03'2	67478	13	13°74'6	23°61'1	67552	26	4°04'9	25°92'7					67694	12	14°48'3	2°32'3
67405	11	6°67'3	22°02'4	67479	10	14°24'0	23°65'0	67553	17	4°16'4	25°02'4					67695	10	15°20'9	2°71'4
67406	12	7°62'8	22°38'8	67480	10	14°71'9	23°09'0	67554	15	5°83'5	25°43'5					67696	13	16°10'6	2°60'6
67407	10	8°08'0	22°77'8	67481	10	14°73'2	23°29'8	67555*	25	6°15'1	25°60'1					67697	10	16°63'7	2°80'0
67408	14	8°14'3	22°13'2	67482*	39	15°20'4	23°61'4	67556	24	6°21'6	25°35'3					67698	12	16°71'5	2°48'1
67409	14	8°43'3	22°77'1	67483	12	15°21'1	23°64'6	67557*	22	6°47'1									

67709	14	23°028	2°981	67783	13	17°730	4°971	67857	10	24°972	6°507	67931	10	17°044	9°102	68005	10	21°800	11°287
67710	20	23°117	2°466	67784	12	18°153	4°528	67858	14	25°809	6°358	67932	13	19°507	9°355	68006	16	22°669	11°123
67711	13	23°856	2°472	67785	13	18°235	4°362	67859	19	25°872	6°777	67933	12	19°958	9°447	68007	21	23°230	11°226
67712	14	24°369	2°638	67786	11	18°674	4°410	67860	15	1°073	7°558	67934	20	21°991	9°180	68008	13	23°484	11°166
67713	14	25°334	2°355	67787	12	19°055	4°818	67861	19	1°665	7°061	67935	22	23°144	9°766	68009	12	23°489	11°470
67714	14	25°408	2°627	67788	19	19°835	4°207	67862	14	2°762	7°845	67936*	37	24°051	9°943	68010	12	23°744	11°361
67715	21	25°426	2°409	67789	13	19°848	4°225	67863	23	3°259	7°587	67937	10	24°140	9°854	68011	14	24°027	11°130
67716	21	0°802	3°346	67790	20	19°904	4°370	67864	11	4°456	7°304	67938	13	24°649	9°283	68012	11	24°563	11°352
67717	20	1°793	3°049	67791	13	20°200	4°590	67865	12	6°057	7°067	67939	11	25°900	9°841	68013	11	24°750	11°900
67718*	29	1°878	3°876	67792	10	20°946	4°481	67866	12	6°488	7°956	67940	18	0°386	10°808	68014	19	0°154	12°742
67719	24	2°819	3°851	67793	10	21°243	4°261	67867	12	7°169	7°424	67941	22	0°425	10°326	68015	20	0°445	12°658
67720	18	3°258	3°420	67794	12	22°140	4°344	67868	12	7°250	7°271	67942	22	0°680	10°994	68016	12	1°003	12°194
67721	16	4°394	3°387	67795	10	22°679	4°674	67869	17	7°511	7°693	67943	14	1°701	10°867	68017	12	1°401	12°528
67722	30	4°507	3°824	67796	10	23°569	4°228	67870	18	9°706	7°858	67944	14	2°247	10°013	68018	13	2°640	12°275
67723	15	4°580	3°259	67797	12	25°094	4°244	67871	12	10°427	7°979	67945	23	2°461	10°710	68019	10	2°807	12°771
67724	24	6°636	3°208	67798	19	25°390	4°262	67872	18	11°870	7°137	67946	15	2°690	10°732	68020	9	3°491	12°212
67725	16	6°774	3°728	67799	15	2°967	5°997	67873	12	12°949	7°407	67947	13	3°216	10°094	68021	12	3°500	12°349
67726	22	7°499	3°696	67800	14	3°183	5°024	67874	20	13°011	7°611	67948	13	4°477	10°690	68022	16	3°871	12°256
67727	12	7°610	3°221	67801	12	6°311	5°305	67875	15	14°510	7°287	67949	20	4°493	10°660	68023	12	4°350	12°651
67728	19	8°345	3°230	67802	12	6°701	5°277	67876	25	15°057	7°690	67950	19	5°126	10°399	68024	10	4°600	12°455
67729	12	9°944	3°837	67803	12	8°467	5°419	67877	14	15°344	7°822	67951	12	6°376	10°628	68025	12	4°627	12°244
67730	16	10°114	3°981	67804	10	8°791	5°790	67878	26	15°671	7°380	67952	17	6°901	10°244	68026	11	4°630	12°150
67731	13	10°368	3°002	67805	13	9°272	5°109	67879	16	15°781	7°470	67953	13	7°937	10°968	68027	12	4°725	12°233
67732	11	11°204	3°148	67806	10	10°266	5°282	67880	13	16°965	7°865	67954	14	10°121	10°384	68028	11	5°336	12°057
67733	13	12°729	3°637	67807	14	11°263	5°642	67881	14	17°769	7°972	67955	13	11°078	10°973	68029	11	6°291	12°050
67734	16	13°400	3°424	67808	21	11°744	5°627	67882	14	18°579	7°207	67956	14	11°895	10°318	68030	10	6°857	12°851
67735	12	14°307	3°083	67809	11	13°291	5°433	67883	11	20°982	7°123	67957	23	12°074	10°200	68031	25	7°211	12°281
67736	22	16°391	3°217	67810	10	13°779	5°811	67884	12	21°144	7°257	67958	16	12°711	10°125	68032	12	7°272	12°886
67737	12	16°442	3°659	67811	12	14°122	5°719	67885	21	22°393	7°908	67959	15	12°823	10°446	68033	18	7°875	12°325
67738	12	16°512	3°632	67812	19	14°330	5°297	67886	24	22°929	7°781	67960	14	12°973	10°010	68034	15	9°024	12°007
67739	18	16°677	3°488	67813	12	15°194	5°442	67887	11	23°900	7°610	67961	19	13°792	10°958	68035	16	10°860	12°982
67740	17	17°350	3°614	67814	21	15°313	5°627	67888	10	24°226	7°255	67962	23	15°481	10°619	68036	21	10°991	12°811
67741	10	17°407	3°116	67815	22	15°857	5°611	67889	10	24°554	7°951	67963	13	18°709	10°736	68037	14	11°446	12°864
67742	22	17°749	3°109	67816	11	16°396	5°566	67890	16	0°825	8°410	67964	13	19°063	10°012	68038	15	13°126	12°277
67743	10	18°834	3°957	67817	11	16°675	5°798	67891	15	6°509	8°261	67965	19	19°848	10°540	68039	12	14°685	12°398
67744	12	19°289	3°009	67818	22	16°820	5°309	67892	13	7°005	8°251	67966	12	21°025	10°661	68040	16	15°159	12°406
67745	14	19°609	3°320	67819	12	18°307	5°466	67893	22	7°881	8°768	67967	10	23°158	10°562	68041	19	16°786	12°184
67746	11	19°928	3°017	67820	18	18°445	5°475	67894	24	8°568	8°066	67968	12	23°512	10°472	68042	15	17°721	12°830
67747	11	22°910	3°087	67821*	38	20°419	5°001	67895	15	8°820	8°690	67969	10	23°810	10°348	68043	14	18°269	12°691
67748	12	23°401	3°816	67822	11	21°096	5°380	67896	14	9°978	8°861	67970	11	24°539	10°635	68044	16	18°469	12°536
67749	9	23°530	3°784	67823	10	21°138	5°776	67897	12	10°167	8°560	67971	12	24°864	10°509	68045	10	21°756	12°720
67750	10	23°560	3°858	67824*	35	21°210	5°648	67898	22	13°038	8°679	67972	10	25°115	10°182	68046	11	22°614	12°055
67751	10	23°884	3°535	67825	10	21°384	5°147	67899	19	13°783	8°945	67973	22	0°842	11°901	68047	12	22°789	12°045
67752	12	24°056	3°503	67826	17	23°064	5°476	67900	16	14°581	8°239	67974	17	1°698	11°286	68048	10	22°841	12°217
67753	12	24°449	3°424	67827	13	23°233	5°230	67901	17	15°171	8°294	67975	11	4°682	11°980	68049	19	25°111	12°170
67754	19	25°236	3°016	67828	14	23°479	5°084	67902	19	18°171	8°850	67976	12	4°713	11°395	68050	26	0°470	13°391
67755	20	25°630	3°070	67829	16	24°635	5°327	67903	21	18°725	8°324	67977	11	5°640	11°118	68051	17	0°871	13°839
67756	25	0°064	4°947	67830	10	24°919	5°841	67904	13	19°107	8°963	67978	9	5°695	11°480	68052	12	1°264	13°640
67757	26	0°203	4°555	67831	12	25°206	5°700	67905	22	20°175	8°848	67979	13	6°623	11°999	68053	13	1°777	13°698
67758	20	0°575	4°666	67832	22	1°960	6°539	67906	16	22°823	8°086	67980	19	8°684	11°465	68054	16	2°034	13°209
67759*	29	1°109	4°042	67833	20	2°047	6°364	67907	11	22°831	8°316	67981	14	8°842	11°432	68055	12	3°058	13°356
67760	22	3°394	4°798	67834	21	2°116	6°920	67908	11	22°858	8°478	67982	18	9°200	11°505	68056	12	3°918	13°006
67761	15	3°906	4°760	67835	13	3°309	6°754	67909	10	23°156	8°344	67983	22	9°245	11°889	68057	20	4°054	13°504
67762	17	3°914	4°074	67836	14	5°168	6°718	67910	11	24°502	8°016	67984	12	9°544	11°298	68058	10	4°431	13°969
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67764	12	6°109	4°316	67838	14	5°576	6°317	67912	10	24°936	8°508	67986	15	12°188	11°414	68060	14	4°707	13°753
67765*	29	7°077	4°394	67839	11	5°924	6°045	67913	33	2°045	9°517	67987	16	12°498	11°496	68061	12	5°094	13°357
67766	9	7°304	4°719	67840*	30	6°226	6°370	67914	12	2°267	9°492	67988	18	12°800	11°121	68062	21	5°194	13°206
67767	13	7°559	4°464	67841	12	6°341	6°653	67915	25	2°528	9°194	67989	21	13°395	11°581	68063*	21	5°265	13°847
67768	12	8°230	4°347	67842	12	6°342	6°287	67916	22	2°609	9°482	67990	17	13°453	11°936	68064	12	5°666	13°889
67769	22	8°416	4°030	67843	22	6°620	6°477	67917	18	2°671	9°897	67991	19	14°020	11°814	68065	10	5°889	13°390
67770	28	8°853	4°812	67844	15	8°458	6°585	67918	14	3°066	9°531	67992*	53	14°324	11°248	68066	12	6°401	13°198
67771	14	9°495	4°414	67845	12	9°801	6°243	67919	12	3°724	9°423	67993	18	14°437	11°870	68067	10		

68079	16	13°032	13°054	68153	10	6°295	15°893	68227	10	4°662	17°409	68301	20	22°252	18°877	68375	17	11°284	20°050
68080	19	13°546	13°145	68154	12	6°737	15°391	68228	18	5°111	17°584	68302	11	23°796	18°481	68376	12	12°090	20°595
68081	16	14°325	13°430	68155	12	9°388	15°399	68229	10	5°712	17°734	68303	13	24°390	18°760	68377	10	12°319	20°894
68082	25	16°721	13°321	68156	11	9°595	15°511	68230	13	6°030	17°480	68304	14	24°474	18°376	68378*	35	13°904	20°091
68083*	38	16°779	13°288	68157	12	9°806	15°946	68231	14	6°406	17°947	68305	20	1°058	19°522	68379	11	14°210	20°487
68084*	24	18°060	13°129	68158	14	10°647	15°697	68232*	27	6°571	17°959	68306	19	1°107	19°645	68380	12	15°071	20°460
68085	10	23°559	13°491	68159	12	10°725	15°160	68233	22	6°926	17°013	68307	14	1°348	19°420	68381	13	16°624	20°339
68086	11	24°404	13°860	68160	10	11°846	15°145	68234	14	7°775	17°016	68308	16	2°052	19°294	68382	12	16°971	20°194
68087	18	24°884	13°556	68161	20	12°570	15°999	68235	9	8°303	17°836	68309	18	2°080	19°153	68383	12	17°581	20°250
68088	12	25°229	13°295	68162	20	12°764	15°150	68236	10	8°870	17°881	68310	13	3°034	19°380	68384	11	18°076	20°450
68089	13	25°438	13°521	68163	18	13°694	15°027	68237	11	10°074	17°489	68311	18	3°540	19°680	68385	9	18°390	20°775
68090	12	25°506	13°415	68164	14	15°345	15°030	68238	10	10°135	17°714	68312	15	3°573	19°580	68386	19	18°606	20°450
68091	14	0°735	14°399	68165*	21	15°427	15°610	68239	14	10°786	17°976	68313	18	4°427	19°760	68387	12	19°030	20°404
68092	17	0°794	14°230	68166	19	18°483	15°310	68240	14	12°021	17°059	68314	10	4°561	19°466	68388	10	21°144	20°953
68093	22	1°310	14°360	68167	12	19°807	15°473	68241	10	12°450	17°750	68315	14	4°653	19°220	68389	27	22°763	20°309
68094	15	2°101	14°908	68168*	30	20°269	15°542	68242	15	12°519	17°114	68316	12	5°048	19°027	68390	10	22°904	20°553
68095	14	2°442	14°780	68169	10	21°217	15°633	68243	12	12°780	17°694	68317	22	6°228	19°286	68391	14	24°916	20°968
68096	22	2°466	14°505	68170*	23	21°474	15°179	68244*	40	15°563	17°602	68318	17	6°344	19°581	68392*	26	25°458	20°367
68097	14	2°550	14°566	68171	14	22°021	15°234	68245	21	16°127	17°509	68319	12	8°285	19°826	68393	16	25°592	20°770
68098	15	2°748	14°950	68172	22	22°900	15°201	68246	12	16°261	17°127	68320	12	10°414	19°277	68394	21	0°455	21°601
68099	19	3°336	14°779	68173	11	23°725	15°316	68247	14	16°295	17°846	68321*	31	10°958	19°300	68395	16	1°064	21°018
68100	11	4°240	14°867	68174	15	0°240	16°427	68248	14	19°108	17°753	68322	22	11°844	19°744	68396	16	1°366	21°504
68101	12	4°269	14°367	68175	16	0°703	16°549	68249	12	19°114	17°532	68323	14	12°338	19°522	68397	18	1°927	21°755
68102	11	4°768	14°251	68176	20	1°159	16°700	68250	11	19°872	17°075	68324	16	13°260	19°371	68398	22	2°429	21°054
68103	9	4°906	14°443	68177	14	1°249	16°143	68251	19	20°295	17°858	68325	10	13°410	19°900	68399	18	3°074	21°148
68104	12	4°991	14°307	68178	13	2°140	16°260	68252	13	20°936	17°839	68326	21	14°370	19°484	68400	17	3°707	21°131
68105	13	6°248	14°981	68179	14	2°158	16°431	68253	21	21°030	17°441	68327	20	14°499	19°606	68401	14	4°416	21°440
68106	12	7°526	14°300	68180	12	2°536	16°235	68254	11	21°083	17°557	68328	20	16°157	19°367	68402	13	4°826	21°781
68107	17	7°600	14°180	68181	13	2°625	16°410	68255	10	21°392	17°824	68329	13	16°270	19°920	68403	19	4°910	21°929
68108	11	7°709	14°371	68182*	29	2°703	16°520	68256	12	21°684	17°628	68330	11	16°470	19°338	68404	12	5°153	21°795
68109	13	7°892	14°532	68183*	24	2°797	16°594	68257	19	22°282	17°023	68331	14	17°531	19°741	68405	11	5°814	21°907
68110	14	8°130	14°408	68184	13	2°936	16°646	68258	16	22°292	17°341	68332	22	18°546	19°138	68406	10	6°250	21°042
68111	13	8°413	14°917	68185	14	3°161	16°428	68259	17	22°319	17°198	68333	11	18°911	19°651	68407	11	6°266	21°198
68112	10	8°460	14°633	68186	12	3°212	16°812	68260	19	22°575	17°316	68334	11	19°615	19°702	68408	14	6°282	21°072
68113*	22	8°566	14°129	68187	13	3°839	16°550	68261*	17	23°717	17°375	68335	12	19°917	19°780	68409	16	6°856	21°597
68114	11	8°718	14°650	68188	19	4°330	16°686	68262	14	24°936	17°633	68336	18	20°093	19°796	68410	11	7°477	21°999
68115	10	9°696	14°069	68189*	30	4°423	16°744	68263	12	25°668	17°470	68337	10	20°241	19°522	68411	20	7°943	21°350
68116*	28	10°031	14°720	68190	12	4°944	16°581	68264	21	25°960	17°626	68338	21	22°099	19°370	68412	11	8°131	21°506
68117	12	11°306	14°469	68191	13	5°270	16°194	68265	18	0°769	18°570	68339	12	22°114	19°209	68413	11	8°686	21°335
68118	11	11°390	14°344	68192	12	5°504	16°321	68266	12	3°086	18°127	68340	12	22°905	19°531	68414	18	8°843	21°147
68119*	22	11°906	14°280	68193	14	5°955	16°686	68267	13	3°640	18°381	68341	20	22°990	19°830	68415	11	9°267	21°269
68120	15	12°179	14°225	68194	10	6°080	16°389	68268	26	3°696	18°846	68342	14	23°346	19°250	68416	10	10°098	21°772
68121	20	12°546	14°410	68195	11	6°193	16°585	68269	13	4°764	18°404	68343	13	24°282	19°790	68417	10	10°346	21°710
68122*	26	15°020	14°174	68196	19	6°875	16°380	68270	13	5°000	18°801	68344	14	24°301	19°905	68418	16	11°523	21°160
68123	16	15°239	14°130	68197	13	7°557	16°307	68271	11	5°893	18°174	68345	12	24°341	19°820	68419	10	12°095	21°096
68124	15	15°296	14°437	68198	13	7°660	16°288	68272*	23	6°084	18°167	68346	14	24°392	19°129	68420	11	12°356	21°335
68125	16	16°311	14°105	68199	10	8°826	16°465	68273	14	6°217	18°743	68347*	26	24°561	19°966	68421	12	13°542	21°064
68126	15	16°780	14°004	68200	10	9°399	16°960	68274	12	6°298	18°920	68348	13	24°726	19°549	68422	11	14°150	21°959
68127	15	18°194	14°901	68201	12	10°276	16°361	68275	10	6°327	18°023	68349	14	24°926	19°478	68423	12	14°283	21°860
68128	15	19°069	14°700	68202	10	11°000	16°916	68276	12	6°535	18°600	68350	12	25°390	19°432	68424	14	14°659	21°774
68129*	40	19°608	14°938	68203	11	11°020	16°054	68277	15	6°624	18°600	68351	12	25°513	19°604	68425	13	14°926	21°760
68130	12	21°917	14°309	68204	13	11°501	16°450	68278	10	6°726	18°199	68352	13	25°523	19°779	68426	12	16°112	21°874
68131	10	21°973	14°951	68205	20	11°626	16°663	68279	10	6°835	18°028	68353	20	0°135	20°591	68427	10	16°800	21°533
68132*	22	22°325	14°296	68206	14	11°909	16°127	68280	19	7°282	18°831	68354	19	0°388	20°383	68428	14	16°852	21°167
68133*	21	22°868	14°070	68207	13	13°474	16°350	68281	13	7°743	18°707	68355	20	0°880	20°476	68429	11	17°425	21°977
68134	20	22°948	14°505	68208	14	13°773	16°670	68282	12	8°032	18°681	68356	17	1°199	20°569	68430	13	17°530	21°707
68135*	16	25°375	14°069	68209	19	14°214	16°334	68283	12	8°246	18°427	68357	17	2°160	20°200	68431*	33	17°544	21°508
68136	12	25°854	14°200	68210	12	15°044	16°619	68284	12	8°565	18°566	68358	26	2°469	20°511	68432	14	17°621	21°701
68137	15	0°522	15°761	68211	12	15°176	16°912	68285	20	8°646	18°224	68359	16	2°644	20°622	68433	10	18°159	21°880
68138	18	1°064	15°064	68212	22	15°460	16°302	68286	10	8°717	18°620	68360	20	3°768	20°669	68434	14	20°164	21°215
68139	14	1°137	15°807	68213	22	18°306	16°801	68287	10	8°722	18°806	68361	14	3°977	20°090	68435	10	20°206	21°366
68140	22	1°181	15°832	68214	15	18°742	16°500	68288	15	8°981	18°037	68362	12	5°610	20°053	68436	18	2	

68449	14	6.500	22.733	68523	10	18.891	23.466	68597	10	18.616	25.784	68738	7	4.324	2.242	68812	10	15.004	4.948
68450	9	7.677	22.833	68524*	27	19.669	23.703	68598	13	19.074	25.853	68739	12	6.329	2.954	68813	8	16.012	4.559
68451	12	7.717	22.580	68525	10	20.233	23.196	68599	12	19.319	25.306	68740	12	7.423	2.680	68814	15	16.012	4.647
68452	10	7.791	22.978	68526	11	20.295	23.910	68600	20	19.496	25.344	68741	9	8.086	2.983	68815	22	16.363	4.285
68453	10	8.763	22.678	68527	12	20.626	23.705	68601	10	20.745	25.381	68742	8	9.053	2.768	68816	13	16.715	4.717
68454*	23	9.802	22.230	68528	12	21.563	23.739	68602	10	21.016	25.610	68743	10	9.239	2.618	68817	23	18.714	4.452
68455	10	10.614	22.819	68529	13	22.725	23.585	68603	11	21.566	25.342	68744	10	9.541	2.940	68818	18	18.970	4.558
68456*	18	12.156	22.372	68530	14	22.726	23.256	68604	14	21.628	25.691	68745	13	10.263	2.245	68819	8	19.137	4.028
68457	10	12.346	22.530	68531	15	23.279	23.024	68605	18	22.199	25.332	68746	11	10.454	2.215	68820	8	19.417	4.783
68458*	15	12.693	22.548	68532	25	0.175	24.122	68606	13	22.401	25.595	68747	8	10.888	2.883	68821	21	22.074	4.116
68459	10	12.718	22.977	68533	18	3.663	24.901	68607	17	22.711	25.312	68748	16	10.930	2.504	68822	18	22.201	4.900
68460	13	13.013	22.994	68534*	33	3.722	24.092	68608	14	22.744	25.261	68749	6	11.308	2.195	68823	4	22.269	4.085
68461*	39	14.448	22.618	68535	18	4.478	24.319	68609	15	23.050	25.421	68750	5	11.428	2.574	68824	10	23.176	4.274
68462	14	14.450	22.166	68536	14	8.215	24.203	68610	19	23.194	25.894	68751	10	13.274	2.123	68825	7	23.767	4.544
68463	12	14.645	22.928	68537	12	8.253	24.594					68752	9	13.609	2.528	68826	14	0.869	5.404
68464	13	15.087	22.266	68538	12	8.309	24.686					68753	10	14.620	2.690	68827	9	1.037	5.153
68465	10	15.350	22.676	68539*	37	8.380	24.715					68754	11	17.014	2.855	68828	8	1.282	5.000
68466	10	15.639	22.720	68540	13	8.424	24.162					68755	19	17.776	2.331	68829	13	2.451	5.223
68467	14	17.070	22.934	68541	10	8.695	24.424					68756	10	18.456	2.818	68830	15	4.351	5.613
68468	12	17.775	22.592	68542	20	9.471	24.180					68757	11	19.530	2.871	68831	10	5.524	5.367
68469	12	17.991	22.478	68543	10	9.716	24.530					68758	11	20.226	2.242	68832	11	6.119	5.646
68470	15	19.390	22.774	68544	16	9.754	24.530					68759	10	20.458	2.936	68833	7	6.857	5.625
68471	19	19.915	22.173	68545	10	10.487	24.046					68760	12	21.416	2.581	68834	14	6.976	5.550
68472	17	20.797	22.006	68546	11	10.768	24.948					68761	11	22.647	2.195	68835	12	7.199	5.182
68473	10	21.768	22.014	68547	12	10.960	24.441					68762	8	1.180	3.722	68836	16	7.696	5.091
68474	11	22.023	22.817	68548	10	11.038	24.325					68763	12	2.229	3.307	68837	11	7.793	5.429
68475	10	22.234	22.760	68549	11	11.424	24.189					68764	13	4.993	3.792	68838	9	8.912	5.057
68476*	40	22.499	22.838	68550	11	12.675	24.133					68765	10	6.629	3.380	68839	11	9.729	5.150
68477	14	24.887	22.482	68551	13	13.053	24.982					68766	6	7.133	3.786	68840	9	9.814	5.850
68478	18	24.905	22.022	68552	8	13.149	24.305					68767	7	8.783	3.370	68841*	28	10.697	5.543
68479	14	25.976	22.960	68553	10	13.219	24.220					68768	14	9.802	3.334	68842	14	10.864	5.705
68480	23	0.658	23.290	68554	14	13.227	24.992					68769	10	10.236	3.170	68843	21	11.650	5.735
68481	15	0.782	23.804	68555	10	13.636	24.906					68770	15	10.579	3.265	68844	9	12.998	5.574
68482	19	2.609	23.167	68556	12	14.101	24.576					68771	7	10.846	3.548	68845	11	13.034	5.764
68483*	35	2.680	23.014	68557	10	14.925	24.475					68772	11	11.601	3.484	68846	9	13.166	5.436
68484	24	3.287	23.691	68558	13	15.599	24.943					68773	8	12.986	3.800	68847	10	13.590	5.015
68485	16	3.841	23.933	68559*	20	16.596	24.171					68774	9	13.069	3.646	68848	7	15.336	5.847
68486*	27	3.852	23.073	68560*	31	16.879	24.168					68775	10	13.113	3.797	68849	8	18.376	5.428
68487	15	3.941	23.677	68561	22	17.765	24.971					68776	9	15.239	3.700	68850	10	19.791	5.549
68488	17	4.645	23.090	68562	8	17.886	24.328					68777	8	15.472	3.640	68851	21	19.954	5.309
68489	22	5.724	23.294	68563	10	18.198	24.179					68778	10	15.969	3.263	68852*	19	20.843	5.470
68490	14	6.034	23.020	68564	12	19.214	24.393					68779	8	16.210	3.164	68853	8	21.008	5.624
68491	17	6.180	23.520	68565	10	19.722	24.227					68780	9	16.264	3.912	68854	7	21.891	5.038
68492	19	6.383	23.634	68566	11	20.880	24.420					68781	10	16.286	3.090	68855	12	22.896	5.713
68493	20	6.593	23.709	68567	11	21.169	24.740					68782	8	17.585	3.806	68856	21	23.419	5.500
68494	23	6.868	23.780	68568	12	21.421	24.751					68783	8	17.813	3.590	68857	8	24.150	5.699
68495	16	6.924	23.616	68569	19	24.178	24.155					68784	11	18.371	3.401	68858	16	24.416	5.730
68496	12	6.981	23.843	68570	19	24.229	24.212					68785*	25	18.560	3.284	68859*	29	25.302	5.555
68497	20	7.561	23.931	68571	16	25.972	24.957					68786	9	19.504	3.432	68860	11	2.720	6.269
68498*	22	7.990	23.084	68572	18	3.581	25.328					68787	12	19.762	3.491	68861	8	3.656	6.242
68499	14	8.298	23.779	68573	17	4.876	25.815					68788	15	19.890	3.107	68862	12	3.725	6.659
68500	12	9.324	23.150	68574	18	4.932	25.905					68789	11	19.981	3.571	68863	9	4.400	6.117
68501	20	9.381	23.229	68575	16	5.346	25.238					68790	10	20.852	3.607	68864	13	4.726	6.308
68502	19	9.435	23.477	68576	27	5.554	25.531					68791	6	21.011	3.630	68865	21	5.828	6.084
68503	14	9.908	23.048	68577	17	7.277	25.433					68792	13	21.287	3.768	68866	10	7.660	6.130
68504	11	10.104	23.003	68578*	42	7.331	25.202					68793	27	21.301	3.166	68867	9	9.269	6.446
68505	10	10.144	23.113	68579	13	8.345	25.512					68794	12	21.690	3.461	68868	16	10.177	6.988
68506	11	10.410	23.129	68580	12	9.949	25.426					68795	11	22.929	3.715	68869	12	10.247	6.704
68507	10	10.536	23.555	68581	14	10.028	25.977					68796	9	23.034	3.479	68870	6	12.200	6.475
68508	11	10.598	23.464	68582	19	10.133	25.376					68797	7	25.355	3.106	68871	5	13.547	6.059
68509	14	10.706	23.179	68583	12	10.980	25.059					68798	13	25.577	3.269	68872	7	13.655	6.758
68510	20	10.809	23.257	68584	11	11.050	25.567					68799	5	2.894	4.122	68873	5	13.819	6.209
68511	15	10.857	23.384	68585	10	11.242	25.830					68800	10	3.195	4.136	68874	11	14.356	6.154
68512	10	11.534	23.515	68586	11	14.199	25.368					68801	4	4.728	4.852	68875	12	16.910	6.835
68513	12	11.736	23.451	68587	16	14.448	25.812					68802	9	6.014	4.222	68876	11	17.317	6.593
68514	10	12.098	23.248	68588	12	14.756	25.077					68803	15	6.030	4.551	68877	10	17.489	6.513
68515	13	12.374	23.580	68589	16	14.758	25.091					68804	9	6.089	4.704	68878*	33	17.949	6.679
68516	19	13.834	23.641	68590	11	15.293	25.580					68805	15	6.434	4.429	68879	9	18.428	6.936
68517	11	14.819	23.784	68591	12	15.346	25.516				</								

68886	14	21.633	6.687	68960*	36	1.958	9.891	69034	15	5.673	11.275	69108	7	9.896	13.462	69182	10	19.243	15.851
68887	12	21.820	6.155	68961	10	2.546	9.212	69035*	28	6.267	11.957	69109	8	11.589	13.553	69183	7	19.697	15.510
68888	6	22.980	6.610	68962	9	3.820	9.752	69036	14	6.673	11.454	69110	8	12.167	13.097	69184	6	20.007	15.271
68889	9	23.064	6.680	68963	8	3.968	9.965	69037	7	7.022	11.369	69111*	38	12.210	13.129	69185	8	20.400	15.558
68890	7	23.218	6.593	68964*	27	4.710	9.869	69038	16	9.151	11.350	69112	8	14.431	13.652	69186	10	21.493	15.566
68891	8	0.244	7.867	68965	10	6.045	9.756	69039	10	9.464	11.819	69113	9	14.740	13.941	69187	9	21.592	15.974
68892	25	0.782	7.731	68966	21	6.080	9.461	69040	8	10.252	11.541	69114	8	15.308	13.229	69188*	19	21.704	15.639
68893	4	1.754	7.539	68967	13	6.510	9.398	69041	19	10.300	11.790	69115	7	15.547	13.266	69189	11	22.588	15.103
68894	8	2.076	7.174	68968	11	6.709	9.537	69042	9	10.391	11.094	69116	9	16.338	13.631	69190	8	22.699	15.094
68895	4	2.371	7.937	68969	10	7.109	9.481	69043	7	10.523	11.456	69117	9	17.097	13.381	69191	14	22.730	15.494
68896	4	2.420	7.867	68970	10	8.310	9.883	69044	15	11.024	11.726	69118	13	17.254	13.649	69192	9	22.884	15.227
68897	10	4.187	7.903	68971	12	10.047	9.066	69045	17	11.793	11.552	69119	9	19.737	13.786	69193	19	22.977	15.061
68898	12	4.556	7.021	68972	8	10.420	9.800	69046	9	12.305	11.903	69120	9	20.006	13.479	69194	5	25.519	15.774
68899	13	5.963	7.977	68973	12	10.866	9.787	69047	7	12.441	11.064	69121	8	20.090	13.127	69195	7	25.709	15.712
68900	9	6.884	7.781	68974	9	12.456	9.336	69048	9	12.804	11.553	69122	7	20.323	13.997	69196	9	4.226	16.172
68901	5	6.924	7.376	68975	10	13.362	9.003	69049	8	14.307	11.334	69123	8	20.389	13.080	69197	6	4.720	16.354
68902	9	7.233	7.626	68976	14	14.846	9.507	69050	5	17.038	11.654	69124	9	20.474	13.202	69198	10	5.274	16.783
68903	11	8.111	7.131	68977	7	17.601	9.307	69051	9	17.342	11.611	69125	10	20.579	13.689	69199	8	6.685	16.456
68904	15	8.456	7.159	68978	25	17.927	9.614	69052	8	17.421	11.516	69126*	19	22.126	13.430	69200	10	7.445	16.165
68905	12	8.523	7.844	68979	7	18.158	9.453	69053	9	17.549	11.610	69127	9	22.708	13.602	69201	12	7.890	16.394
68906	8	9.315	7.228	68980	7	18.529	9.594	69054	6	17.911	11.098	69128	7	25.009	13.769	69202	13	8.289	16.068
68907	8	9.714	7.528	68981	14	18.541	9.791	69055	11	19.220	11.790	69129	11	25.765	13.198	69203	11	8.996	16.788
68908	6	9.835	7.134	68982	7	19.826	9.698	69056	14	19.713	11.612	69130*	20	0.303	14.308	69204	8	9.229	16.503
68909	6	10.429	7.693	68983	8	20.255	9.550	69057	7	19.859	11.750	69131*	23	0.845	14.071	69205	16	9.550	16.798
68910	11	15.103	7.216	68984	5	20.364	9.344	69058	21	20.058	11.284	69132	19	0.933	14.510	69206	7	10.114	16.958
68911	13	15.764	7.899	68985	6	20.521	9.498	69059	7	21.053	11.767	69133*	13	3.373	14.021	69207	14	10.854	16.384
68912	8	15.910	7.749	68986	7	21.486	9.136	69060	12	21.615	11.283	69134	9	4.138	14.929	69208	7	11.116	16.575
68913	6	16.463	7.548	68987	13	22.435	9.970	69061	10	21.740	11.628	69135	8	4.203	14.332	69209	8	12.216	16.317
68914	9	16.665	7.034	68988	6	22.621	9.311	69062	10	25.074	11.849	69136	10	5.497	14.325	69210*	20	12.330	16.991
68915	8	18.481	7.476	68989*	28	23.392	9.451	69063	9	25.336	11.076	69137	12	6.187	14.949	69211	9	13.184	16.339
68916	8	19.200	7.655	68990	14	24.921	9.313	69064	10	25.480	11.063	69138	8	10.715	14.554	69212	7	13.423	16.449
68917	10	19.423	7.068	68991	11	25.451	9.789	69065	8	0.548	12.045	69139	9	10.840	14.083	69213	9	14.535	16.119
68918	8	20.710	7.969	68992	13	25.673	9.965	69066	10	0.724	12.033	69140	7	11.204	14.232	69214	19	15.650	16.390
68919	11	23.218	7.770	68993	8	1.424	10.432	69067	14	3.068	12.117	69141	8	11.761	14.303	69215	6	15.709	16.401
68920	12	23.560	7.060	68994	9	2.463	10.578	69068	18	4.919	12.281	69142	6	13.722	14.529	69216*	28	17.351	16.287
68921	16	23.786	7.643	68995	11	2.786	10.444	69069	9	5.303	12.288	69143	7	15.118	14.103	69217	6	17.686	16.831
68922	15	24.813	7.600	68996	9	3.033	10.111	69070*	19	6.578	12.856	69144	8	15.227	14.274	69218*	26	17.757	16.465
68923	10	25.796	7.240	68997	18	5.173	10.534	69071*	28	6.687	12.002	69145	13	16.036	14.221	69219	8	17.880	16.070
68924	11	0.681	8.037	68998	8	5.321	10.690	69072	8	10.306	12.323	69146	12	16.037	14.436	69220	12	18.137	16.091
68925	8	1.016	8.295	68999	8	6.431	10.457	69073	9	10.346	12.743	69147	19	17.124	14.285	69221	11	19.040	16.796
68926	9	2.489	8.133	69000	8	6.528	10.419	69074	12	11.204	12.861	69148	9	17.389	14.309	69222	10	19.452	16.376
68927	10	2.821	8.425	69001	15	6.859	10.655	69075	10	11.583	12.202	69149	8	18.498	14.350	69223	9	19.556	16.613
68928	7	5.564	8.733	69002	7	6.951	10.208	69076	22	12.437	12.744	69150	8	19.387	14.043	69224*	21	20.027	16.076
68929	8	6.093	8.125	69003	6	7.400	10.359	69077	11	12.795	12.534	69151	15	19.915	14.728	69225*	21	21.520	16.534
68930	7	6.458	8.336	69004	8	8.407	10.434	69078	11	13.062	12.209	69152	9	20.144	14.637	69226	7	22.058	16.320
68931	12	7.228	8.394	69005	9	12.876	10.160	69079	9	14.721	12.430	69153	11	21.556	14.980	69227	11	22.591	16.398
68932	12	7.349	8.606	69006	13	13.033	10.021	69080	14	17.879	12.503	69154	9	21.876	14.150	69228	10	22.654	16.864
68933	20	7.460	8.406	69007	14	13.050	10.321	69081	11	19.195	12.741	69155	19	21.939	14.822	69229	4	22.665	16.575
68934	9	7.611	8.305	69008	9	13.884	10.249	69082	12	20.518	12.400	69156	13	22.553	14.229	69230	13	23.224	16.216
68935	8	8.260	8.281	69009	15	15.090	10.821	69083	7	21.250	12.348	69157	10	22.588	14.711	69231	9	23.588	16.745
68936	7	8.920	8.633	69010	10	15.627	10.110	69084	9	21.288	12.702	69158*	40	22.617	14.585	69232	10	24.223	16.078
68937	10	8.928	8.982	69011	11	15.746	10.792	69085	9	21.574	12.417	69159	10	23.500	14.601	69233	16	0.312	17.063
68938	12	9.157	8.696	69012	9	16.404	10.892	69086	8	21.639	12.783	69160	26	25.904	14.512	69234	14	0.331	17.383
68939	10	9.295	8.031	69013	6	16.765	10.097	69087	10	24.359	12.577	69161	9	0.013	15.263	69235	14	0.354	17.236
68940	8	10.508	8.051	69014	16	18.025	10.141	69088*	89	24.403	12.048	69162	18	0.898	15.214	69236	18	0.614	17.351
68941	5	10.959	8.590	69015	9	19.024	10.027	69089	17	25.161	12.797	69163	12	5.067	15.469	69237*	13	1.767	17.387
68942	9	11.387	8.995	69016	6	19.943	10.154	69090	11	25.573	12.770	69164	7	7.903	15.702	69238	9	3.000	17.620
68943	10	14.040	8.698	69017	19	21.354	10.684	69091	11	25.871	12.747	69165	5	9.037	15.913	69239*	16	4.028	17.596
68944	9	14.044	8.563	69018	17	21.882	10.661	69092	7	1.529	13.476	69166	11	9.239	15.416	69240*	21	4.514	17.369
68945	12	17.004	8.353	69019	9	22.500	10.825	69093	9	2.389	13.828	69167	10	9.713	15.625	69241*	9	4.621	17.772
68946	7	17.904	8.172	69020	13	23.964	10.001	69094	6	2.617	13.553	69168	5	9.911	15.120	69242	10	5.241	17.621
68947	7	17.957	8.531	69021	8	25.968	10.348	69095	13	2.866	13.515	69169	8	9.962	15.760	69243*	12	5.998	17.074
68948	8	18.691	8.110	69022	14	0.586	11.104	69096	8	3.208	13.245	69170	18	10.252	15.103	69244	13	6.250	17.725

69256	11	18°074	17°957	69330	9	6°949	19°992	69404	7	15°667	21°023	69478	13	24°073	23°307	69611	11	24°322	0°404
69257	12	19°075	17°579	69331	7	7°071	19°580	69405	15	16°898	21°843	69479	14	2°363	24°213	69612*	22	24°874	0°431
69258	7	19°187	17°091	69332	14	7°950	19°367	69406	10	17°072	21°776	69480	13	2°418	24°271	69613	13	1°605	1°756
69259	8	19°459	17°407	69333	7	8°147	19°313	69407	21	17°284	21°189	69481	7	4°192	24°989	69614	17	3°274	1°427
69260	12	20°448	17°645	69334	12	8°969	19°090	69408	11	18°405	21°065	69482	10	5°510	24°004	69615	10	7°377	1°736
69261	9	21°658	17°393	69335	8	9°221	19°931	69409	9	18°525	21°619	69483	9	6°415	24°024	69616	11	7°882	1°699
69262	13	21°877	17°585	69336	12	9°855	19°967	69410	7	19°140	21°735	69484	13	6°451	24°232	69617	7	8°911	1°929
69263	17	23°200	17°184	69337	10	12°320	19°685	69411	8	22°708	21°710	69485	18	6°483	24°672	69618	11	9°665	1°928
69264	12	23°218	17°091	69338	9	14°153	19°881	69412	5	23°185	21°732	69486	19	7°429	24°964	69619*	32	10°330	1°196
69265	9	23°516	17°648	69339	6	14°154	19°016	69413	6	24°703	21°976	69487	9	8°260	24°963	69620	12	11°321	1°549
69266	7	25°015	17°142	69340	15	14°549	19°322	69414	7	24°882	21°326	69488	8	8°274	24°876	69621	9	11°506	1°501
69267	8	25°187	17°911	69341	6	14°648	19°723	69415	7	24°894	21°993	69489	7	11°457	24°181	69622	12	12°860	1°235
69268	15	25°553	17°135	69342	5	14°921	19°087	69416*	39	0°646	22°919	69490	6	11°605	24°424	69623	9	13°236	1°077
69269	16	25°682	17°566	69343	9	15°746	19°950	69417	11	3°047	22°512	69491	11	12°613	24°789	69624	16	13°971	1°291
69270	20	0°319	18°931	69344	10	15°834	19°422	69418	14	3°056	22°048	69492	12	13°837	24°072	69625	12	14°031	1°329
69271	6	1°868	18°497	69345*	33	16°451	19°438	69419	8	4°512	22°154	69493	7	18°874	24°629	69626	8	15°865	1°578
69272	8	2°473	18°768	69346*	13	17°691	19°439	69420	5	5°195	22°051	69494	8	19°551	24°768	69627	7	16°805	1°854
69273	11	2°549	18°382	69347	6	18°085	19°221	69421	8	5°512	22°525	69495	8	24°046	24°263	69628	8	17°213	1°855
69274	7	4°935	18°172	69348	7	19°176	19°672	69422	4	5°592	22°351	69496	11	24°684	24°014	69629	11	18°281	1°344
69275	15	5°583	18°279	69349	7	19°547	19°489	69423	16	5°752	22°983	69497	13	25°571	24°492	69630	8	18°470	1°687
69276	5	6°004	18°448	69350	6	19°602	19°516	69424	9	7°916	22°153	69498	13	0°390	25°441	69631	10	19°522	1°454
69277*	23	8°712	18°193	69351	7	20°824	19°811	69425	15	9°892	22°769	69499	11	0°907	25°412	69632	24	19°664	1°787
69278	5	8°872	18°400	69352	13	21°390	19°563	69426	10	10°045	22°260	69500	12	1°400	25°991	69633	23	25°633	1°176
69279	7	9°315	18°153	69353*	18	21°882	19°599	69427	6	10°089	22°270	69501	8	4°626	25°008	69634	36	0°274	2°744
69280	7	11°440	18°492	69354	14	22°444	19°368	69428	19	10°267	22°359	69502	11	5°430	25°619	69635	9	0°379	2°159
69281	8	11°566	18°231	69355	12	23°220	19°094	69429	10	10°871	22°570	69503*	22	6°297	25°838	69636	12	4°549	2°795
69282*	50	11°923	18°617	69356*	53	23°281	19°465	69430	7	10°936	22°407	69504	10	6°512	25°183	69637	13	5°029	2°890
69283	10	12°419	18°812	69357	11	23°456	19°170	69431	10	11°540	22°645	69505	9	6°553	25°925	69638*	22	6°541	2°277
69284	6	12°487	18°103	69358	6	24°545	19°756	69432	19	12°456	22°777	69506	7	6°596	25°387	69639	9	8°352	2°910
69285	7	12°782	18°194	69359	16	24°791	19°954	69433	8	12°749	22°343	69507	9	6°924	25°501	69640	14	8°429	2°612
69286	11	13°922	18°607	69360	30	0°862	20°364	69434	10	13°198	22°896	69508	9	7°569	25°826	69641	9	10°262	2°154
69287	5	14°108	18°891	69361	10	3°047	20°985	69435	7	14°759	22°111	69509	18	16°598	25°022	69642	10	11°251	2°130
69288	10	14°296	18°858	69362*	22	3°578	20°369	69436	12	16°303	22°308	69510	9	17°212	25°625	69643	11	11°336	2°831
69289	6	14°324	18°189	69363	9	3°722	20°773	69437	7	16°965	22°234	69511	8	17°471	25°523	69644	9	12°031	2°309
69290	8	15°735	18°871	69364	11	5°069	20°397	69438	11	17°108	22°339	69512	7	17°561	25°174	69645	11	13°410	2°015
69291	11	16°056	18°816	69365	9	5°185	20°174	69439	15	17°966	22°531	69513	10	19°195	25°254	69646	13	14°476	2°249
69292*	30	16°433	18°948	69366*	20	5°364	20°568	69440	8	19°010	22°518	69514	12	19°439	25°665	69647	12	16°373	2°976
69293	9	16°535	18°164	69367	18	5°413	20°782	69441	16	19°046	22°591	69515	7	21°038	25°267	69648	12	18°616	2°254
69294	10	17°149	18°599	69368*	19	6°139	20°618	69442	4	19°272	22°945	69516	9	22°877	25°600	69649*	23	21°191	2°592
69295	9	17°409	18°763	69369	6	7°310	20°980	69443	10	19°804	22°011	69517	13	24°179	25°767	69650	8	21°370	2°466
69296	18	17°680	18°642	69370	8	7°431	20°045	69444	11	20°923	22°134	69518*	21	24°234	25°685	69651	14	0°263	3°348
69297	5	17°982	18°527	69371	11	8°574	20°442	69445	6	21°535	22°393					69652	10	0°663	3°034
69298	7	18°854	18°113	69372	9	8°720	20°678	69446	6	23°047	22°825					69653	24	1°056	3°684
69299	6	19°479	18°423	69373*	25	9°150	20°936	69447*	21	23°339	22°463					69654	11	5°011	3°465
69300	11	20°043	18°967	69374	11	9°217	20°557	69448	16	23°415	22°067					69655	15	6°383	3°909
69301	8	20°394	18°108	69375	14	9°241	20°524	69449	16	23°866	22°022					69656	15	6°464	3°184
69302	7	20°520	18°599	69376	10	9°473	20°585	69450	11	0°882	23°336					69657*	32	7°305	3°014
69303	5	21°239	18°293	69377	11	10°411	20°163	69451	10	1°433	23°093					69658*	31	7°566	3°801
69304	6	21°245	18°959	69378	9	12°629	20°265	69452	11	4°512	23°542					69659	9	7°970	3°219
69305	7	21°581	18°677	69379	7	13°038	20°062	69453	8	4°609	23°619					69660	11	9°243	3°470
69306	7	22°958	18°358	69380	11	13°135	20°747	69454	17	6°055	23°604					69661	13	14°125	3°924
69307	13	23°097	18°882	69381	8	14°327	20°682	69455	8	6°180	23°495					69662	8	14°505	3°814
69308	12	23°759	18°921	69382	9	15°858	20°386	69456	5	6°244	23°095					69663	10	15°491	3°460
69309	10	25°253	18°802	69383	9	15°904	20°165	69457	6	7°555	23°549					69664	9	16°160	3°306
69310	19	0°173	19°432	69384	6	16°774	20°428	69458	10	9°474	23°302					69665	8	17°769	3°725
69311	8	0°990	19°575	69385	8	17°170	20°774	69459	11	9°638	23°189					69666	12	19°883	3°869
69312	20	1°082	19°876	69386	11	17°530	20°837	69460	10	9°771	23°527					69667	19	22°112	3°372
69313	12	1°428	19°286	69387	8	18°298	20°432	69461	8	10°414	23°244					69668	21	1°194	4°467
69314	10	2°384	19°810	69388	7	20°277	20°676	69462	9	10°754	23°885					69669	20	5°070	4°591
69315	11	2°405	19°927	69389	6	22°340	20°510	69463	12	12°063	23°461					69670	11	5°687	4°336
69316	9	2°441	19°839	69390	9	23°524	20°912	69464	10	13°049	23°972					69671	10	5°849	4°908
69317*	23	2°668	19°982	69391	6	4°490	21°979	69465	7	14°642	23°368					69672	8	7°257	4°056
69318	8	2°826	19°559	69392	14	5°142	21°754	69466	6	14°688	23°170					69673	10	15°081	4°600
69319	10	3°026	19°484	69393	10	6°086	21°513	69467	11	14°752	23°705					69674	13	15°561	4°522
69320	10	3°494	19°428	69394	9	6°502	21°635	69468	8	15°245	23°121					69675	13	15°569	4°830
69321	9	3°620	19°601	69395	15	6°725	21°736	69469	9	15°486</									

69685	11	0·826	5·724	69759	22	4·403	8·130	69833	10	15·359	10·230	69907*	19	22·269	13·240	69981	13	7·280	16·150
69686	14	1·900	5·272	69760	20	6·250	8·611	69834	8	15·410	10·229	69908	6	23·329	13·068	69982	9	8·362	16·928
69687	23	2·420	5·053	69761	17	6·369	8·190	69835	8	15·478	10·944	69909	9	0·671	14·555	69983	10	8·538	16·980
69688	8	3·150	5·241	69762	9	6·427	8·903	69836	7	18·449	10·049	69910	23	1·050	14·394	69984	6	9·577	16·354
69689	18	3·418	5·273	69763	15	7·020	8·579	69837	6	19·001	10·573	69911	10	1·698	14·274	69985*	12	11·315	16·222
69690*	28	4·303	5·089	69764	8	8·019	8·195	69838	8	21·318	10·213	69912	11	1·699	14·667	69986	9	12·612	16·490
69691	8	6·326	5·816	69765	7	8·180	8·381	69839	10	22·624	10·276	69913*	50	1·724	14·150	69987	19	14·291	16·549
69692	9	8·086	5·500	69766	19	9·694	8·589	69840	9	23·510	10·403	69914	19	2·090	14·619	69988	9	14·788	16·422
69693	8	8·661	5·150	69767	5	11·800	8·681	69841	13	23·770	10·070	69915	9	2·607	14·155	69989	27	15·899	16·743
69694	7	8·681	5·679	69768	6	11·825	8·804	69842	16	23·851	10·030	69916*	20	5·010	14·034	69990	16	15·949	16·544
69695*	45	9·357	5·579	69769	9	12·121	8·049	69843	16	25·579	10·100	69917	9	5·332	14·884	69991	7	16·974	16·451
69696	10	9·850	5·500	69770	10	13·650	8·724	69844	11	0·812	11·202	69918	6	5·610	14·665	69992	6	17·380	16·784
69697	8	9·864	5·222	69771	7	13·706	8·506	69845*	26	3·480	11·588	69919	8	6·185	14·757	69993	9	18·730	16·005
69698	8	9·866	5·950	69772	9	15·872	8·615	69846	8	4·069	11·411	69920	9	6·579	14·643	69994	6	19·595	16·702
69699	19	10·274	5·526	69773	8	16·002	8·780	69847	9	4·150	11·380	69921	18	7·531	14·929	69995	10	21·357	16·920
69700	10	9·922	5·475	69774	13	16·824	8·481	69848	9	5·724	11·419	69922*	40	9·490	14·924	69996*	21	21·799	16·280
69701	10	11·120	5·786	69775	18	17·220	8·874	69849	8	6·051	11·338	69923	10	11·458	14·430	69997	14	1·021	17·158
69702	11	11·841	5·753	69776	10	17·366	8·707	69850	7	6·775	11·771	69924	8	12·229	14·628	69998	6	4·333	17·440
69703	12	12·902	5·895	69777	8	17·890	8·654	69851	11	7·739	11·689	69925	9	13·191	14·718	69999	14	4·827	17·092
69704	11	14·950	5·609	69778	9	18·192	8·892	69852	9	7·855	11·851	69926	14	13·840	14·917	70000	7	5·161	17·781
69705	9	15·183	5·470	69779	9	18·234	8·726	69853*	25	7·972	11·693	69927	9	13·958	14·146	70001	9	5·487	17·817
69706	9	15·553	5·587	69780	7	19·743	8·580	69854	8	8·510	11·275	69928*	13	14·240	14·590	70002	9	5·829	17·395
69707	9	15·729	5·710	69781	11	20·883	8·866	69855	11	8·894	11·306	69929*	20	14·804	14·390	70003	8	6·230	17·229
69708	10	15·861	5·118	69782	18	21·490	8·069	69856*	26	12·619	11·311	69930	10	16·191	14·644	70004	6	7·147	17·616
69709	9	16·190	5·799	69783	18	23·935	8·950	69857	9	13·320	11·643	69931	6	16·613	14·270	70005	7	8·976	17·769
69710	8	16·411	5·698	69784	14	25·289	8·014	69858	12	13·345	11·574	69932	9	18·017	14·435	70006	6	8·977	17·554
69711	11	17·110	5·611	69785	13	1·489	9·534	69859	7	13·442	11·379	69933	7	18·283	14·638	70007	10	11·022	17·023
69712	10	18·711	5·454	69786*	30	2·440	9·009	69860	12	14·060	11·271	69934	11	18·835	14·999	70008	17	11·712	17·042
69713	11	20·784	5·038	69787	9	3·015	9·550	69861	6	16·481	11·591	69935	7	18·860	14·578	70009	9	12·174	17·250
69714	12	22·239	5·098	69788	10	4·503	9·317	69862	6	16·571	11·130	69936*	29	20·269	14·064	70010*	40	13·788	17·769
69715	16	22·550	5·211	69789	11	4·726	9·491	69863	7	16·650	11·089	69937	12	21·660	14·922	70011	7	14·773	17·427
69716	9	24·948	5·814	69790	10	5·025	9·870	69864	10	17·990	11·520	69938	9	23·200	14·420	70012	9	14·820	17·230
69717	18	0·647	6·261	69791	12	5·336	9·114	69865	11	18·883	11·140	69939	9	23·288	14·481	70013	7	15·020	17·074
69718	8	2·077	6·240	69792	12	6·211	9·306	69866*	31	19·171	11·805	69940	10	23·756	14·527	70014	9	16·451	17·753
69719	10	2·577	6·611	69793	17	7·340	9·372	69867	9	19·578	11·808	69941*	22	25·671	14·728	70015	12	19·137	17·418
69720	9	4·813	6·765	69794	6	10·332	9·690	69868	8	21·999	11·226	69942	11	0·611	15·143	70016	11	20·001	17·488
69721	10	6·772	6·744	69795	11	11·921	9·539	69869	9	22·140	11·219	69943*	21	0·824	15·211	70017	10	20·757	17·011
69722	8	10·569	6·167	69796	9	12·254	9·739	69870	6	22·577	11·680	69944	13	1·850	15·055	70018	11	22·150	17·240
69723	9	10·607	6·478	69797	16	14·060	9·849	69871	7	24·852	11·122	69945	11	2·350	15·769	70019*	30	23·298	17·883
69724	7	10·730	6·840	69798	12	14·552	9·880	69872	18	25·366	11·100	69946	10	3·349	15·622	70020	13	23·925	17·950
69725*	26	12·450	6·549	69799	12	14·735	9·225	69873*	20	1·220	12·999	69947	5	4·640	15·303	70021	10	25·151	17·744
69726	8	12·870	6·624	69800	7	15·050	9·036	69874	10	3·443	12·119	69948	8	4·829	15·235	70022	13	1·610	18·935
69727	8	13·959	6·899	69801	7	17·463	9·920	69875	15	4·247	12·330	69949	7	5·660	15·295	70023	17	2·257	18·439
69728	11	13·977	6·361	69802	16	18·090	9·754	69876	10	4·658	12·299	69950	9	5·677	15·499	70024	12	2·382	18·650
69729	9	14·652	6·369	69803	8	18·374	9·118	69877	10	4·852	12·721	69951	7	7·008	15·501	70025	11	2·620	18·723
69730	10	18·379	6·600	69804	10	18·560	9·624	69878	11	4·958	12·271	69952	9	7·201	15·266	70026	12	2·919	18·471
69731	9	19·348	6·821	69805	9	19·087	9·926	69879	7	6·287	12·670	69953*	27	8·431	15·417	70027	8	3·496	18·785
69732	20	23·709	6·489	69806	8	19·954	9·949	69880	7	7·160	12·429	69954	19	8·570	15·169	70028	9	4·414	18·332
69733	20	24·360	6·970	69807	24	20·049	9·156	69881	11	7·768	12·296	69955	11	9·650	15·914	70029	7	4·818	18·915
69734	12	2·243	7·328	69808	8	20·780	9·685	69882	6	9·091	12·457	69956	10	9·921	15·930	70030	7	5·936	18·998
69735	15	2·810	7·193	69809	7	21·119	9·120	69883	8	9·422	12·565	69957	9	10·809	15·678	70031	9	6·116	18·492
69736	12	3·837	7·139	69810*	28	21·174	9·719	69884	8	10·904	12·807	69958	8	12·350	15·594	70032	15	8·916	18·550
69737	7	4·990	7·090	69811	11	22·821	9·180	69885	10	11·813	12·585	69959	12	14·038	15·158	70033	6	12·180	18·198
69738*	24	5·893	7·740	69812	11	25·683	9·820	69886	12	13·729	12·355	69960	18	14·489	15·536	70034	12	12·349	18·449
69739	6	6·219	7·712	69813	20	0·416	10·261	69887	8	15·540	12·946	69961	7	14·498	15·410	70035	11	12·530	18·853
69740	19	8·443	7·270	69814	15	0·684	10·858	69888	9	16·127	12·149	69962	6	19·271	15·770	70036	13	15·931	18·340
69741	10	8·797	7·055	69815	20	0·945	10·234	69889	9	16·440	12·304	69963	14	20·920	15·379	70037	8	16·186	18·704
69742	10	8·845	7·430	69816	9	1·567	10·391	69890	10	16·551	12·361	69964	7	21·908	15·713	70038	11	16·442	18·980
69743	12	9·069	7·314	69817	9	4·401	10·607	69891	10	16·870	12·750	69965*	34	22·260	15·468	70039	8	18·160	18·794
69744	9	10·206	7·485	69818	5	4·547	10·591	69892*	26	18·099	12·299	69966	7	23·127	15·821	70040	13	18·223	18·323
69745	10	10·240	7·439	69819	10	5·936	10·901	69893	10	20·167	12·810	69967	9	23·189	15·181	70041	9	18·315	18·714
69746	11	11·187	7·860	69820	9	6·442	10·533	69894	17	24·838	12·290	69968*	20	24·433	15·710	70042	18	19·963	18·279
69747	8	14·729	7·279	69821	9	7·452	10·679	69895	18	25·935	12·519	69969	17	24·637	15·540	70043	5	20·104	18·589
69748	7	15·324																	

70055*	14	11°275	19°160	70129	8	19°830	22°631	70203	20	2°897	0°058	70277*	26	12°480	5°084	70351	14	24°831	8°355
70056*	22	11°454	19°089	70130	9	22°605	22°686	70204	16	5°366	0°579	70278	8	16°222	5°415	70352	15	0°944	9°375
70057	8	11°721	19°598	70131	8	24°300	22°173	70205	13	7°734	0°686	70279	11	17°583	5°586	70353	8	5°760	9°348
70058	7	13°253	19°081	70132	11	25°130	22°982	70206	9	9°614	0°223	70280	13	21°224	5°131	70354	9	6°189	9°842
70059	21	13°485	19°678	70133*	13	25°759	22°206	70207	10	12°859	0°291	70281	10	21°470	5°886	70355	10	6°278	9°242
70060	12	14°011	19°334	70134	12	0°773	23°088	70208	9	13°600	0°341	70282	12	24°514	5°315	70356	8	6°444	9°507
70061	7	15°300	19°266	70135	9	3°271	23°810	70209	11	18°793	0°033	70283	19	0°682	6°916	70357	15	7°312	9°580
70062	11	15°694	19°823	70136	13	3°908	23°553	70210	8	19°479	0°168	70284	10	1°914	6°225	70358	9	9°209	9°299
70063	7	16°302	19°270	70137	12	5°870	23°470	70211	12	1°161	1°133	70285	8	2°832	6°352	70359	12	11°893	9°412
70064	10	17°100	19°481	70138	10	7°772	23°580	70212	17	2°537	1°573	70286	9	3°984	6°167	70360	6	12°083	9°564
70065	11	19°877	19°642	70139	10	11°550	23°485	70213	9	4°041	1°414	70287	6	4°323	6°874	70361	19	13°120	9°377
70066*	20	24°535	19°060	70140	9	14°215	23°237	70214	20	5°091	1°600	70288	19	4°387	6°010	70362	11	15°233	9°733
70067*	22	24°868	19°860	70141*	12	14°979	23°190	70215	8	6°353	1°230	70289	9	4°532	6°744	70363	12	16°962	9°093
70068	8	4°071	20°860	70142	9	16°337	23°302	70216	9	9°176	1°206	70290	10	5°166	6°576	70364	7	22°078	9°227
70069	9	5°954	20°164	70143	10	16°641	23°468	70217	16	10°688	1°438	70291	8	5°181	6°564	70365	7	22°456	9°157
70070*	28	6°499	20°558	70144	13	17°210	23°139	70218	12	10°892	1°792	70292	12	5°343	6°159	70366	10	25°864	9°325
70071	7	7°277	20°539	70145	9	18°249	23°769	70219	10	11°443	1°900	70293	7	5°694	6°819	70367	8	0°537	10°835
70072	11	7°592	20°794	70146*	26	19°940	23°755	70220	20	12°405	1°563	70294	14	5°912	6°831	70368	14	0°793	10°499
70073	9	8°285	20°200	70147*	27	21°452	23°464	70221	8	17°486	1°233	70295	9	7°017	6°953	70369	13	0°876	10°458
70074	8	8°849	20°257	70148*	30	21°819	23°459	70222	9	22°020	1°652	70296	8	7°850	6°558	70370	7	1°797	10°799
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70076	17	11°279	20°308	70150*	26	7°479	24°161	70224	12	4°178	2°624	70298	10	8°440	6°234	70372	8	2°568	10°414
70077	8	11°768	20°223	70151	14	8°550	24°152	70225	27	4°360	2°087	70299	12	8°495	6°926	70373	10	2°603	10°503
70078	10	12°720	20°780	70152	14	10°569	24°951	70226	14	8°067	2°911	70300	6	10°906	6°182	70374	11	2°703	10°220
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70080	12	13°339	20°350	70154*	29	12°081	24°060	70228	11	10°582	2°725	70302	6	11°900	6°842	70376*	33	4°301	10°702
70081*	30	13°572	20°800	70155*	24	12°957	24°520	70229	11	11°264	2°978	70303	13	12°908	6°349	70377	8	5°334	10°289
70082	8	15°900	20°209	70156*	12	13°285	24°800	70230	10	16°198	2°194	70304*	31	13°808	6°182	70378	9	6°872	10°325
70083	10	16°700	20°020	70157*	18	13°453	24°611	70231	11	19°277	2°998	70305	12	14°834	6°138	70379	10	7°135	10°297
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70085*	19	18°290	20°433	70159	12	16°266	24°169	70233	10	2°846	3°624	70307	9	15°694	6°413	70381	12	7°578	10°354
70086*	21	19°344	20°568	70160	20	16°473	24°815	70234	9	3°126	3°330	70308*	31	16°413	6°852	70382	10	8°929	10°870
70087*	24	19°550	20°822	70161	11	16°898	24°459	70235	8	4°679	3°283	70309	10	20°449	6°987	70383	12	9°457	10°949
70088	9	21°251	20°841	70162	9	17°942	24°450	70236	10	4°689	3°381	70310	9	21°111	6°852	70384	9	10°132	10°182
70089	11	23°633	20°986	70163*	21	19°057	24°618	70237	8	8°177	3°461	70311	14	22°865	6°558	70385	7	10°191	10°991
70090	18	25°852	20°437	70164	9	23°131	24°672	70238	21	10°074	3°593	70312	12	22°950	6°341	70386	12	12°376	10°239
70091	8	0°119	21°716	70165	10	25°630	24°794	70239	9	12°664	3°198	70313	9	24°087	6°922	70387	10	13°243	10°381
70092	17	2°612	21°622	70166	23	0°115	25°802	70240	19	14°229	3°556	70314	18	1°342	7°389	70388	11	16°158	10°354
70093	21	3°063	21°569	70167	13	3°421	25°313	70241	8	15°452	3°741	70315	9	5°564	7°699	70389	7	16°961	10°060
70094	8	4°091	21°531	70168*	29	3°478	25°227	70242	19	23°572	3°443	70316	12	6°256	7°735	70390	10	17°824	10°558
70095	7	4°249	21°960	70169	77	5°100	25°999	70243	11	1°858	4°629	70317	11	6°450	7°177	70391	8	19°073	10°187
70096	10	6°064	21°593	70170*	30	5°674	25°009	70244	25	1°929	4°842	70318	8	6°656	7°597	70392	9	20°622	10°785
70097	10	6°580	21°372	70171	10	5°997	25°633	70245	8	2°887	4°499	70319	9	8°879	7°915	70393	7	20°769	10°838
70098	16	7°349	21°534	70172	11	8°011	25°735	70246	9	3°811	4°612	70320	17	11°686	7°517	70394	5	23°300	10°647
70099	6	7°751	21°450	70173	18	10°462	25°090	70247	11	5°069	4°167	70321	7	12°861	7°678	70395	10	24°023	10°174
70100	8	7°775	21°691	70174	8	12°906	25°510	70248*	22	5°265	4°881	70322	14	14°900	7°260	70396	8	24°790	10°409
70101*	14	8°639	21°149	70175	12	13°559	25°988	70249	11	6°630	4°506	70323*	20	14°927	7°930	70397	15	24°986	10°524
70102	11	10°368	21°025	70176	11	15°418	25°060	70250	8	9°658	4°747	70324	14	15°031	7°739	70398	8	1°895	11°537
70103	10	10°380	21°250	70177	13	19°678	25°435	70251	8	10°924	4°651	70325	11	17°161	7°613	70399	13	2°404	11°506
70104*	34	11°193	21°194	70178	8	19°720	25°299	70252	9	11°339	4°030	70326	10	19°931	7°126	70400*	54	3°286	11°914
70105*	50	14°886	21°272	70179	23	25°483	25°409	70253	8	11°573	4°461	70327	7	20°120	7°958	70401	9	4°630	11°813
70106	9	15°890	21°249					70254	11	11°818	4°416	70328	16	20°299	7°966	70402	7	4°762	11°127
70107	6	15°976	21°050					70255*	20	12°236	4°132	70329	10	20°772	7°985	70403	20	7°061	11°442
70108*	22	16°475	21°790					70256	13	13°184	4°159	70330	6	22°231	7°601	70404	9	8°079	11°414
70109*	19	19°821	21°391					70257	12	14°435	4°290	70331	9	23°850	7°005	70405	5	8°343	11°255
70110	19	20°341	21°890					70258	11	14°682	4°186	70332*	37	25°211	7°434	70406	11	10°630	11°432
70111	18	22°995	21°107					70259	9	15°363	4°494	70333	10	25°691	7°069	70407	7	13°090	11°939
70112	8	25°340	21°217					70260	13	15°649	4°341	70334	13	2°284	8°420	70408	11	13°824	11°023
70113*	23	2°541	22°017					70261	12	16°650	4°131	70335*	23	2°681	8°310	70409	19	14°535	11°280
70114	10	3°286	22°851					70262	10	17°126	4°931	70336	10	3°041	8°667	70410	15	15°407	11°208
70115	8	5°388	22°180					70263	9	18°758	4°168	70337	8	3°050	8°655	70411	10	16°272	11°434
70116	10	5°409	22°959					70264	8	21°409	4°003	70338	12	4°957	8°826	70412	8	17°215	11°973
70117	11	5°511	22°137					70265	11	21°700	4°974	70339	10	5°577	8°764	70413	8	17°429	11°830
70118	10	5°705	22°356					70266	10	21°708	4°409	70340	10	9°318	8°653	70414	9	17°730	11°082
70119	10	6°019	22°019					70267*	26	23°209	4°950	70341	17	12°42					

70425	9	5°141	12°474	70499	8	12°563	15°852	70573	7	17°870	18°128	70647	9	11°323	22°412
70426	15	5°309	12°834	70500	12	12°704	15°672	70574*	23	19°405	18°629	70648*	46	11°337	22°749
70427	12	5°733	12°016	70501*	15	12°970	15°899	70575	7	23°800	18°677	70649	7	12°988	22°122
70428	6	6°540	12°048	70502	7	13°142	15°498	70576*	19	1°683	19°479	70650	10	14°086	22°087
70429	7	8°763	12°470	70503*	11	13°421	15°989	70577*	12	5°444	19°094	70651	5	14°220	22°624
70430	14	9°803	12°217	70504	8	16°140	15°307	70578	9	5°809	19°679	70652*	23	17°381	22°267
70431	8	10°503	12°191	70505	13	16°836	15°541	70579	13	6°069	19°412	70653	6	19°040	22°090
70432	9	10°882	12°130	70506	12	16°855	15°546	70580	7	7°943	19°721	70654	10	20°621	22°266
70433	11	11°380	12°299	70507	15	17°061	15°191	70581	7	9°302	19°093	70655	19	21°572	22°169
70434	10	12°284	12°450	70508	11	17°439	15°199	70582	18	9°620	19°998	70656	9	21°861	22°862
70435	9	12°721	12°502	70509	8	20°215	15°478	70583	7	12°066	19°531	70657	12	21°935	22°589
70436	7	14°070	12°569	70510	11	20°881	15°936	70584	10	13°731	19°255	70658	9	24°229	22°717
70437	10	15°390	12°693	70511*	20	21°329	15°240	70585	10	13°886	19°058	70659	12	2°338	23°394
70438*	24	17°555	12°782	70512	9	21°382	15°729	70586	13	13°908	19°578	70660	14	4°430	23°783
70439	9	18°337	12°171	70513	7	21°422	15°022	70587	7	15°702	19°118	70661	13	5°073	23°658
70440	7	19°297	12°601	70514	9	22°471	15°859	70588	11	16°993	19°356	70662	9	5°581	23°599
70441	8	20°501	12°744	70515	11	24°653	15°872	70589	8	17°031	19°696	70663	12	5°602	23°324
70442	13	23°493	12°027	70516	7	0°232	16°259	70590	9	17°591	19°285	70664	9	9°226	23°010
70443	11	23°671	12°809	70517*	20	1°537	16°127	70591	7	18°555	19°690	70665*	18	10°319	23°250
70444	7	0°395	13°502	70518	12	3°179	16°770	70592	9	20°022	19°974	70666	9	12°430	23°118
70445	8	2°042	13°647	70519*	25	3°974	16°308	70593*	18	21°608	19°003	70667	6	13°658	23°025
70446	12	3°523	13°516	70520	12	5°297	16°231	70594	7	23°214	19°901	70668*	10	13°913	23°103
70447	8	5°441	13°371	70521	8	5°300	16°749	70595	6	24°201	19°266	70669	11	14°552	23°929
70448	9	7°092	13°865	70522	7	5°529	16°790	70596	7	25°199	19°677	70670	9	18°379	23°399
70449	11	7°991	13°836	70523	11	7°730	16°322	70597	9	25°757	19°992	70671	20	19°180	23°974
70450	15	8°234	13°531	70524	10	9°970	16°940	70598*	19	2°027	20°274	70672	20	22°493	23°775
70451	8	8°458	13°906	70525	6	11°151	16°127	70599	14	3°022	20°835	70673	9	23°596	23°439
70452*	30	9°270	13°534	70526	10	11°785	16°084	70600	9	4°001	20°517	70674	8	2°847	24°925
70453	12	11°229	13°956	70527	9	11°932	16°125	70601*	20	4°169	20°300	70675	6	4°852	24°875
70454	6	11°688	13°652	70528	7	12°353	16°029	70602	11	5°181	20°005	70676	11	7°871	24°591
70455	7	16°606	13°758	70529	12	12°445	16°526	70603	12	14°860	20°980	70677	10	8°122	24°947
70456	11	16°622	13°713	70530	17	13°219	16°480	70604	8	18°264	20°609	70678	7	8°985	24°643
70457	16	17°313	13°686	70531	9	13°850	16°641	70605	12	20°105	20°020	70679	7	9°845	24°134
70458	9	17°789	13°788	70532*	37	14°557	16°608	70606	9	21°314	20°563	70680	9	11°786	24°488
70459	8	19°030	13°683	70533*	41	14°800	16°581	70607*	14	21°925	20°581	70681	6	12°043	24°582
70460	13	19°070	13°247	70534	9	14°917	16°400	70608	11	23°841	20°977	70682	12	12°087	24°442
70461	9	19°856	13°049	70535*	25	16°504	16°427	70609	13	24°892	20°760	70683*	19	12°145	24°487
70462	12	20°150	13°800	70536	7	18°656	16°772	70610	12	25°008	20°922	70684	9	12°332	24°170
70463	6	23°375	13°428	70537	5	19°468	16°440	70611	14	0°171	21°548	70685*	12	12°421	24°931
70464	9	0°286	14°855	70538	10	21°551	16°474	70612	11	0°811	21°415	70686	7	12°429	24°297
70465	9	0°376	14°916	70539	14	22°813	16°060	70613	11	2°520	21°624	70687	5	12°470	24°239
70466	8	0°842	14°953	70540	7	2°483	17°831	70614	10	4°038	21°461	70688*	12	12°923	24°300
70467	7	2°182	14°326	70541	9	3°746	17°323	70615*	36	5°062	21°936	70689	9	13°733	24°471
70468	7	3°782	14°499	70542	15	6°092	17°357	70616	7	6°011	21°688	70690*	14	13°899	24°095
70469	13	3°973	14°638	70543	16	6°659	17°270	70617	8	6°971	21°605	70691	9	14°001	24°736
70470	9	4°203	14°280	70544	9	8°270	17°313	70618	19	7°318	21°555	70692	19	19°062	24°789
70471	9	5°307	14°054	70545	11	8°306	17°305	70619	9	8°200	21°744	70693	6	19°860	24°084
70472*	22	7°123	14°979	70546	9	8°357	17°560	70620	18	8°954	21°728	70694	10	20°489	24°637
70473	9	8°010	14°519	70547	6	9°083	17°461	70621	8	9°568	21°860	70695	9	22°986	24°797
70474	5	8°206	14°060	70548	7	9°802	17°617	70622	7	9°852	21°407	70696	10	24°223	24°200
70475	6	8°402	14°149	70549	9	10°091	17°094	70623	10	12°386	21°958	70697	10	0°357	25°111
70476*	13	15°490	14°052	70550	7	10°681	17°049	70624	11	13°887	21°142	70698	14	2°721	25°814
70477	7	16°561	14°897	70551	7	11°100	17°182	70625	9	13°948	21°091	70699	9	2°750	25°586
70478	8	18°853	14°605	70552	12	14°707	17°326	70626	16	15°195	21°668	70700	11	2°854	25°197
70479	6	20°063	14°533	70553	7	14°720	17°310	70627	9	17°340	21°412	70701*	22	8°371	25°000
70480	16	25°627	14°866	70554	9	15°855	17°597	70628*	35	17°484	21°426	70702	7	9°514	25°419
70481	8	0°284	15°619	70555*	33	16°661	17°794	70629	8	17°523	21°388	70703	8	11°354	25°775
70482	15	1°736	15°958	70556	9	17°626	17°762	70630	12	17°740	21°880	70704	8	11°689	25°759
70483	9	2°401	15°909	70557	9	18°799	17°353	70631*	11	23°378	21°409	70705*	20	12°580	25°369
70484*	18	2°760	15°128	70558	10	20°229	17°777	70632	9	24°083	21°290	70706	11	12°588	25°382
70485	7	3°359	15°436	70559	9	20°436	17°079	70633	7	1°494	22°595	70707	7	13°369	25°699
70486	8	3°371	15°401	70560	11	24°131	17°683	70634	8	2°950	22°579	70708	7	14°428	25°200
70487*	19	3°994	15°309	70561*	30	0°430	18°316	70635*	13	2°952	22°607	70709	10	15°362	25°341
70488	7	7°238	15°621	70562	11	1°058	18°378	70636	8	3°076	22°173	70710	9	16°074	25°671
70489	9	7°334	15°408	70563	10	2°284	18°153	70637	12	5°502	22°552	70711	7	16°494	25°691
70490	9	7°737	15°666	70564	9	2°794	18°917	70638*	20	5°680	22°757	70712	11	18°138	25°623
70491	7	7°821	15°499	70565	6	3°118	18°751	70639	10	6°489	22°443	70713	10	22°083	25°295
70492	10	9°432	15°922	70566*	21	3°180	18°855	70640	12	7°274	22°564				
70493	8	9°899	15°543	70567	8	4°099	18°627	70641*	13	8°524	22°422				
70494	10	9°905	15°288	70568	8	5°244	18°512	70642	9	8°839	22°824				
70495	8	10°501	15°163	70569	13	7°021	18°454	70643	11	10°245	22°727				
70496	11	10°560	15°142	70570	8	7°237	18°178	70644*	10	10°429	22°164				
70497	5	10°812	15°686	70571	11	11°416	18°360	70645	7	10°614	22°309				
70498	11	10°950	15°677	70572	10	17°450	18°887	70646*	16	10°887	22°770				

R. A. 20^h 52^m

Plate 443; 1893 Aug. 12.

Provisional Constants.

A	B	C
+00778	-00054	-3450

D	E	F
+00031	+00798	-1518

Mag. = 13.8 - 1.02√d

No.	d	x	y
70801	10	3°260	0°804
70802	14	7°506	0°840
70803	9	8°619	0°413
70804	10	11°072	0°514
70805	12	11°129	0°749
70806	7	11°399	0°

70857	9	7.189	3.782	70931	7	9.367	6.944	71005	10	20.361	9.755	71079	9	16.202	12.553	71153	9	24.226	15.834
70858	8	7.287	3.587	70932	9	9.590	6.900	71006	12	20.738	9.402	71080*	18	16.364	12.634	71154	8	24.381	15.329
70859	10	11.828	3.588	70933	8	10.535	6.407	71007	8	21.336	9.035	71081	17	18.478	12.899	71155	17	0.938	16.050
70860	20	12.564	3.640	70934	8	10.672	6.031	71008	11	21.798	9.450	71082	11	18.584	12.040	71156	7	0.987	16.936
70861	7	15.360	3.042	70935	7	15.176	6.102	71009	13	22.203	9.563	71083	17	19.649	12.730	71157	9	1.228	16.961
70862	11	16.901	3.940	70936	9	16.141	6.281	71010	9	22.204	9.071	71084	7	21.288	12.157	71158	9	2.778	16.228
70863	8	17.569	3.131	70937	20	18.574	6.433	71011	10	23.040	9.037	71085	9	23.381	12.087	71159	9	4.471	16.141
70864	13	17.838	3.534	70938	11	18.739	6.020	71012	11	24.741	9.293	71086	11	25.942	12.720	71160	8	4.750	16.699
70865	13	20.288	3.772	70939	9	21.271	6.016	71013	6	25.102	9.674	71087	8	1.457	13.411	71161	10	6.589	16.800
70866	10	20.478	3.404	70940	12	22.138	6.564	71014	7	25.472	9.756	71088	9	2.241	13.598	71162*	21	7.749	16.180
70867	8	20.552	3.250	70941	11	23.276	6.930	71015	7	1.339	10.629	71089	9	5.345	13.490	71163	10	7.888	16.368
70868	11	21.657	3.830	70942*	25	25.143	6.640	71016	7	1.604	10.290	71090	7	5.938	13.570	71164	9	11.330	16.849
70869	10	22.448	3.539	70943	10	25.290	6.120	71017	13	2.051	10.144	71091	9	8.114	13.971	71165	12	11.381	16.070
70870	18	22.454	3.700	70944	7	25.869	6.749	71018	9	2.820	10.364	71092	8	9.311	13.312	71166	7	11.425	16.040
70871	8	24.350	3.984	70945	10	0.215	7.602	71019	19	3.018	10.480	71093	10	11.441	13.508	71167	9	12.148	16.527
70872*	31	1.151	4.934	70946*	30	3.194	7.385	71020	8	3.206	10.012	71094	14	14.581	13.900	71168	11	12.524	16.622
70873	7	1.540	4.085	70947	10	3.666	7.011	71021*	23	4.339	10.941	71095	8	16.259	13.600	71169	9	16.610	16.521
70874	9	2.042	4.107	70948	9	3.988	7.779	71022	9	4.686	10.871	71096	9	16.924	13.998	71170	10	22.290	16.230
70875	8	2.679	4.720	70949	11	8.901	7.519	71023	11	9.400	10.308	71097	9	16.945	13.127	71171	7	25.399	16.414
70876	7	3.698	4.515	70950	9	8.970	7.930	71024	11	10.150	10.310	71098	10	17.178	13.008	71172	6	25.718	16.422
70877	11	6.081	4.457	70951	10	14.250	7.806	71025	7	13.200	10.536	71099	8	17.424	13.798	71173	9	25.825	16.400
70878	7	6.566	4.700	70952	7	16.794	7.887	71026	10	14.589	10.753	71100	9	17.644	13.882	71174	11	2.280	17.651
70879	19	7.019	4.750	70953	9	17.205	7.163	71027	8	14.938	10.046	71101*	16	20.207	13.380	71175	8	2.965	17.645
70880	7	7.770	4.531	70954	12	17.650	7.079	71028	11	14.988	10.148	71102*	11	20.311	13.310	71176	7	4.019	17.388
70881	14	10.073	4.471	70955	7	19.768	7.028	71029	9	15.243	10.044	71103	6	21.040	13.127	71177	8	4.058	17.917
70882	7	10.404	4.300	70956	9	20.456	7.919	71030	9	15.278	10.120	71104	7	21.141	13.024	71178	9	4.181	17.491
70883	7	10.466	4.472	70957*	15	21.034	7.462	71031	16	16.604	10.467	71105	7	21.962	13.128	71179	10	7.383	17.450
70884	8	12.144	4.648	70958	7	21.322	7.929	71032	10	18.030	10.336	71106	9	22.817	13.370	71180	7	9.337	17.019
70885*	20	14.932	4.292	70959	8	22.066	7.561	71033	13	18.604	10.107	71107	10	22.970	13.963	71181	9	9.473	17.254
70886	9	16.195	4.251	70960	8	22.529	7.886	71034	9	19.717	10.935	71108	7	23.167	13.798	71182	8	9.479	17.884
70887	8	18.052	4.174	70961	10	23.927	7.084	71035	9	19.979	10.440	71109	10	24.351	13.727	71183	9	9.666	17.849
70888	11	18.825	4.430	70962	9	24.180	7.070	71036	9	20.051	10.692	71110	9	2.965	14.222	71184	9	14.747	17.693
70889	9	19.466	4.394	70963	8	25.540	7.699	71037	10	21.156	10.749	71111	13	3.730	14.809	71185*	21	15.402	17.430
70890	8	20.120	4.961	70964	9	1.145	8.313	71038	19	24.556	10.660	71112	6	5.050	14.398	71186	12	16.240	17.878
70891	10	22.268	4.469	70965	17	2.829	8.312	71039	10	0.099	11.387	71113	7	5.267	14.304	71187*	18	17.510	17.941
70892	15	23.407	4.470	70966	11	4.565	8.471	71040	12	0.352	11.110	71114	7	6.392	14.785	71188	11	19.243	17.959
70893	16	23.590	4.990	70967	10	4.762	8.357	71041	9	1.799	11.602	71115	8	6.749	14.797	71189	9	21.182	17.170
70894	8	23.684	4.416	70968	11	6.570	8.144	71042	10	2.050	11.311	71116	12	7.816	14.865	71190	8	23.232	17.270
70895	15	24.504	4.142	70969	9	8.725	8.040	71043	9	3.165	11.846	71117	9	8.136	14.503	71191	7	24.745	17.174
70896	15	25.912	4.210	70970	15	8.998	8.644	71044	10	4.230	11.181	71118	10	8.860	14.300	71192	10	1.966	18.149
70897	16	2.460	5.277	70971	9	9.421	8.384	71045	9	6.588	11.960	71119	9	9.069	14.212	71193	11	1.967	18.650
70898	13	4.269	5.481	70972	22	9.612	8.465	71046	11	8.055	11.495	71120	9	9.074	14.943	71194	7	2.445	18.631
70899	13	4.407	5.850	70973	16	11.272	8.923	71047	7	8.230	11.793	71121	8	11.424	14.380	71195	7	3.432	18.726
70900	7	5.065	5.349	70974	7	11.430	8.234	71048	12	8.563	11.208	71122	9	11.951	14.252	71196*	19	4.358	18.093
70901	11	5.238	5.614	70975	11	12.056	8.720	71049*	29	10.209	11.140	71123	10	16.665	14.063	71197	9	4.769	18.160
70902*	21	6.900	5.858	70976	10	12.478	8.942	71050	7	10.748	11.645	71124	9	17.351	14.830	71198	11	5.004	18.658
70903	8	8.534	5.889	70977	9	14.339	8.344	71051	9	11.935	11.038	71125	8	20.505	14.413	71199	10	7.295	18.158
70904	9	10.108	5.266	70978	9	14.875	8.319	71052	11	12.530	11.523	71126	7	20.732	14.280	71200	9	10.695	18.940
70905	19	11.685	5.073	70979	10	15.500	8.674	71053	9	13.085	11.435	71127	8	21.145	14.979	71201	8	11.065	18.930
70906	21	12.676	5.680	70980	8	15.654	8.738	71054	7	15.877	11.465	71128	6	23.112	14.830	71202	9	12.224	18.374
70907	12	12.890	5.160	70981	10	16.657	8.664	71055	9	16.198	11.046	71129	9	24.715	14.456	71203	11	14.520	18.272
70908	9	12.935	5.154	70982	12	16.973	8.022	71056	9	17.280	11.899	71130	11	0.593	15.855	71204	9	14.682	18.356
70909	11	14.959	5.415	70983	9	18.146	8.323	71057	7	17.466	11.500	71131	12	2.775	15.830	71205	7	14.778	18.026
70910	8	16.820	5.796	70984	14	20.234	8.439	71058	11	17.770	11.570	71132	7	3.651	15.194	71206	10	20.915	18.050
70911	9	17.639	5.568	70985	11	21.588	8.924	71059	8	19.418	11.480	71133	12	4.144	15.001	71207	9	20.919	18.380
70912	7	18.658	5.895	70986	6	22.612	8.605	71060	20	20.538	11.253	71134	9	4.235	15.745	71208	9	21.750	18.254
70913	10	19.746	5.872	70987	10	24.274	8.258	71061	11	21.150	11.599	71135	10	4.593	15.456	71209	9	21.807	18.577
70914	7	20.188	5.129	70988	12	24.639	8.449	71062	6	21.600	11.375	71136	11	5.882	15.571	71210	11	1.401	19.882
70915	8	20.245	5.770	70989	7	0.089	9.228	71063	11	22.201	11.618	71137	7	7.059	15.497	71211	9	2.379	19.234
70916	9	21.530	5.600	70990	8	0.465	9.154	71064	9	22.818	11.660	71138	10	7.472	15.765	71212	10	2.870	19.004
70917	8	22.561	5.948	70991	8	3.807	9.945	71065	7	24.930	11.551	71139	18	8.565	15.318	71213	7	3.100	19.780
70918	11	23.302	5.344	70992	11	3.878	9.263	71066	11	25.407	11.938	71140	7	8.727	15.253	71214	10	3.384	19.626
70919	9	24.747	5.914	70993	7	4.189	9.197	71067	11	1.550	12.007	71141	11	9.002	15.780	71215	12	3.950	19.934
70920	15	0.834	6.547	70994	10	6.130													

71227*	23	11.688	19.764	71301	11	18.032	22.229	71404	16	1.468	0.659	71478	16	6.815	2.270	71552	12	21.738	3.500
71228	7	15.852	19.622	71302	7	19.009	22.636	71405	26	3.353	0.360	71479	11	8.276	2.224	71553	13	23.254	3.132
71229	9	17.593	19.605	71303	10	23.366	22.339	71406	16	4.220	0.853	71480	13	8.285	2.725	71554	14	23.852	3.456
71230	7	19.855	19.591	71304	21	25.053	22.810	71407	20	4.661	0.234	71481	12	8.378	2.890	71555	16	23.903	3.068
71231	8	19.861	19.542	71305	25	0.748	23.773	71408	17	7.400	0.111	71482	16	8.396	2.541	71556	16	24.116	3.709
71232*	20	21.194	19.390	71306	10	1.035	23.084	71409	22	7.466	0.893	71483	20	9.772	2.780	71557	22	24.318	3.689
71233	12	21.447	19.415	71307	17	1.841	23.417	71410	17	8.294	0.160	71484	14	11.201	2.431	71558	13	24.610	3.570
71234	6	22.170	19.210	71308	13	4.553	23.350	71411	15	8.874	0.763	71485	20	11.431	2.402	71559	14	24.761	3.463
71235	7	22.252	19.300	71309	12	5.572	23.423	71412	17	11.006	0.524	71486	13	12.770	2.824	71560	16	25.089	3.084
71236	8	23.188	19.422	71310	9	6.335	23.034	71413	14	11.978	0.385	71487	19	12.836	2.212	71561	21	25.696	3.178
71237	7	23.249	19.579	71311	14	11.434	23.255	71414	11	13.113	0.520	71488	14	13.671	2.095	71562	22	0.208	4.211
71238*	17	25.126	19.711	71312	14	16.720	23.654	71415	22	14.421	0.051	71489	15	14.897	2.663	71563	24	0.483	4.820
71239	7	25.238	19.011	71313*	23	18.422	23.710	71416	13	15.056	0.990	71490	11	15.620	2.936	71564	28	0.655	4.061
71240*	21	0.123	20.587	71314	8	19.286	23.055	71417	17	15.840	0.377	71491	14	16.224	2.306	71565	22	1.330	4.305
71241	14	2.047	20.952	71315	9	19.399	23.059	71418	22	15.977	0.623	71492	13	16.255	2.034	71566	26	1.614	4.801
71242	17	3.092	20.715	71316	9	20.545	23.715	71419	15	16.295	0.224	71493*	53	17.160	2.368	71567	18	1.888	4.742
71243	17	3.213	20.877	71317	16	1.256	24.786	71420	14	16.397	0.505	71494*	28	17.355	2.830	71568	18	2.540	4.303
71244	12	3.425	20.224	71318	20	2.485	24.168	71421	15	17.929	0.388	71495	12	17.977	2.639	71569	22	2.694	4.457
71245	10	4.749	20.577	71319	9	3.372	24.201	71422	26	18.194	0.483	71496	12	18.272	2.050	71570	20	4.095	4.496
71246	9	4.916	20.991	71320	8	3.912	24.031	71423	15	18.696	0.449	71497	18	18.520	2.866	71571	13	4.603	4.579
71247	9	7.146	20.147	71321	21	5.339	24.029	71424	20	18.977	0.521	71498	13	18.844	2.869	71572	25	4.690	4.104
71248	10	7.902	20.498	71322	8	6.544	24.722	71425	16	19.480	0.889	71499	19	18.866	2.212	71573	13	5.052	4.935
71249	9	8.350	20.849	71323	9	7.112	24.390	71426	15	20.386	0.536	71500	12	20.010	2.548	71574	16	5.624	4.628
71250	16	10.235	20.007	71324	10	7.897	24.576	71427	15	22.216	0.430	71501	16	20.320	2.503	71575	16	7.127	4.510
71251	15	10.839	20.230	71325	19	8.226	24.224	71428	12	22.218	0.929	71502	12	21.043	2.766	71576	17	7.238	4.626
71252	13	11.820	20.814	71326	8	8.739	24.480	71429	22	23.159	0.046	71503	27	21.069	2.311	71577	18	7.537	4.694
71253	10	16.464	20.800	71327	10	15.210	24.527	71430	21	23.328	0.613	71504*	25	21.286	2.048	71578	12	8.120	4.283
71254	9	16.523	20.587	71328	7	16.529	24.229	71431	15	25.096	0.589	71505*	25	21.302	2.040	71579	12	8.699	4.348
71255	9	17.625	20.448	71329*	17	18.404	24.114	71432	24	1.581	1.880	71506	11	22.092	2.509	71580	11	9.041	4.756
71256	8	17.760	20.231	71330	10	18.565	24.909	71433	20	4.565	1.601	71507	20	22.557	2.169	71581	15	9.413	4.594
71257	9	18.589	20.273	71331	9	18.730	24.675	71434	17	5.170	1.296	71508	21	24.070	2.927	71582	17	11.088	4.599
71258	7	19.679	20.444	71332	11	25.597	24.251	71435	18	5.548	1.233	71509	18	24.459	2.250	71583	10	11.233	4.482
71259	7	21.178	20.250	71333	17	0.357	25.297	71436	26	6.515	1.222	71510	23	25.803	2.235	71584	13	12.144	4.873
71260*	17	1.592	21.390	71334	11	4.172	25.448	71437	18	7.472	1.350	71511	24	0.647	3.899	71585	17	12.545	4.603
71261	9	1.687	21.324	71335	19	5.124	25.119	71438	15	7.972	1.129	71512	30	1.124	3.206	71586	21	13.764	4.004
71262	12	2.294	21.261	71336	10	5.247	25.951	71439	13	8.584	1.244	71513	17	3.462	3.472	71587	15	14.110	4.209
71263	7	4.107	21.169	71337	10	5.907	25.115	71440	13	8.621	1.460	71514	20	3.641	3.030	71588	11	14.141	4.630
71264	9	4.254	21.974	71338	12	6.415	25.330	71441	14	9.466	1.960	71515	18	4.415	3.995	71589	13	14.320	4.025
71265*	16	5.130	21.419	71339	18	7.229	25.260	71442*	39	9.500	1.880	71516	24	4.627	3.503	71590	15	15.767	4.549
71266*	17	5.609	21.471	71340	14	8.489	25.671	71443	14	10.227	1.024	71517	36	4.630	3.382	71591	17	16.097	4.768
71267	13	7.587	21.594	71341	7	11.541	25.636	71444	15	11.728	1.515	71518	13	4.645	3.511	71592	12	17.027	4.190
71268	11	8.190	21.041	71342	14	12.268	25.639	71445*	31	11.904	1.157	71519	16	5.679	3.614	71593	12	18.080	4.720
71269	11	8.465	21.606	71343	11	13.978	25.000	71446	13	11.919	1.120	71520	15	5.764	3.451	71594	14	18.574	4.788
71270	8	9.276	21.931	71344*	40	16.267	25.258	71447	13	13.409	1.039	71521	14	6.390	3.299	71595	15	19.723	4.129
71271	7	10.679	21.784	71345	17	17.018	25.768	71448	12	14.320	1.221	71522	12	7.350	3.189	71596	16	19.958	4.788
71272	12	11.817	21.461	71346	10	18.418	25.121	71449	14	14.421	1.700	71523	14	8.017	3.779	71597	15	20.156	4.247
71273	10	12.290	21.730	71347	11	19.734	25.940	71450	14	14.604	1.788	71524	13	8.387	3.644	71598	18	20.472	4.490
71274*	21	17.880	21.421	71348	8	19.950	25.239	71451	11	14.825	1.293	71525	10	8.910	3.225	71599	17	20.730	4.116
71275*	20	18.434	21.864	71349*	10	20.116	25.034	71452	19	15.168	1.354	71526	13	10.499	3.428	71600	18	20.951	4.239
71276	13	25.446	21.417	71350	11	24.012	25.997	71453	9	15.230	1.550	71527	13	10.696	3.631	71601	11	21.808	4.731
71277	13	0.099	22.871					71454	10	15.251	1.654	71528	15	10.867	3.682	71602	14	22.029	4.426
71278	15	0.166	22.599					71455	11	15.735	1.169	71529	17	11.265	3.056	71603	13	22.061	4.722
71279	12	2.461	22.685					71456	16	16.310	1.514	71530	20	11.733	3.410	71604	13	22.403	4.301
71280	9	3.407	22.610					71457	14	17.645	1.627	71531	17	12.111	3.497	71605	16	23.306	4.245
71281	11	3.752	22.526					71458	22	17.714	1.225	71532	22	12.513	3.459	71606	10	23.333	4.397
71282	8	4.147	22.670					71459	16	21.260	1.444	71533	10	12.651	3.011	71607	20	24.006	4.824
71283	7	4.222	22.697					71460	14	21.644	1.065	71534	11	12.923	3.267	71608	13	25.000	4.910
71284*	15	4.829	22.669					71461	13	22.263	1.086	71535	11	13.746	3.676	71609	14	25.994	4.414
71285	9	5.060	22.492					71462	10	22.990	1.588	71536	10	15.130	3.030	71610	17	0.583	5.583
71286	12	6.130	22.450					71463	20	23.488	1.697	71537*	40	15.236	3.670	71611	22	1.530	5.670
71287	9	6.574	22.904					71464	17	24.183	1.500	71538	13	15.467	3.158	71612	28	1.806	5.315
71288	8	7.112	22.189					71465	16	25.070	1.731	71539	11	15.503	3.257	71613	12	2.070	5.550
71289	12	9.385	22.527					71466	17	25.720	1.027	71540*	41	15.955	3.154	71614	16	2.792	5.983
71290	9	9.467	22.816					71467	20	0.921	2.906	71541	17	16.831	3.951	71615	18	5.678	5.558
71291	9	10.106	22.287					71468	20	0.922	2.200	71542	12	17.187					

71626	12	10°629	5°610	71700	11	22°265	6°444	71774	13	9°256	8°046	71848	16	3°762	10°007	71922	10	4°419	12°730
71627	13	12°563	5°503	71701	22	22°389	6°960	71775	17	9°660	8°698	71849	11	3°860	10°720	71923	13	5°576	12°031
71628	10	12°767	5°900	71702	18	22°690	6°996	71776	11	11°251	8°155	71850	12	4°469	10°106	71924	15	5°624	12°479
71629*	37	12°842	5°376	71703	12	23°370	6°098	71777	15	11°894	8°435	71851	34	5°309	10°749	71925	13	6°731	12°937
71630	16	13°384	5°901	71704	13	23°520	6°661	71778	17	14°053	8°269	71852	13	6°060	10°003	71926	21	7°218	12°950
71631	10	13°447	5°080	71705	13	23°776	6°065	71779	15	14°694	8°002	71853	17	6°963	10°466	71927	16	7°311	12°396
71632	11	13°534	5°964	71706	11	23°876	6°682	71780	13	14°792	8°146	71854	16	7°124	10°235	71928	15	7°480	12°088
71633	20	14°510	5°750	71707	11	23°920	6°723	71781	13	16°426	8°967	71855	13	7°426	10°979	71929	10	7°538	12°044
71634	19	14°709	5°995	71708	19	24°287	6°830	71782	15	16°703	8°236	71856	12	7°762	10°162	71930	20	7°677	12°234
71635	13	15°229	5°825	71709	11	24°385	6°973	71783	15	17°696	8°711	71857	14	7°789	10°915	71931	14	8°378	12°482
71636	10	15°868	5°955	71710	14	24°391	6°344	71784	12	18°194	8°514	71858	20	7°814	10°399	71932	11	9°130	12°874
71637	13	17°913	5°904	71711	11	24°521	6°480	71785	13	19°754	8°350	71859	20	8°245	10°636	71933	16	9°388	12°520
71638	11	18°140	5°930	71712	14	24°849	6°224	71786	15	20°096	8°771	71860	12	8°660	10°032	71934	17	9°496	12°744
71639	14	18°977	5°792	71713	19	25°149	6°230	71787	16	20°299	8°734	71861	16	9°656	10°817	71935	21	11°519	12°362
71640	20	19°229	5°340	71714	13	25°878	6°339	71788	12	21°120	8°849	71862	11	10°326	10°198	71936	12	12°038	12°523
71641	14	19°301	5°529	71715	15	0°342	7°890	71789	11	21°173	8°541	71863	21	10°570	10°444	71937	14	14°475	12°394
71642	12	19°355	5°524	71716	20	1°530	7°244	71790	13	21°344	8°329	71864	12	10°951	10°540	71938	13	14°556	12°980
71643	10	19°508	5°509	71717	19	2°178	7°388	71791	14	22°346	8°385	71865	20	12°425	10°836	71939	19	15°053	12°441
71644	21	19°703	5°862	71718	17	2°429	7°370	71792	13	22°554	8°699	71866	11	12°822	10°826	71940	22	15°240	12°555
71645	18	20°186	5°491	71719	14	3°790	7°964	71793	13	22°810	8°662	71867	22	13°458	10°470	71941	13	16°000	12°586
71646	19	20°494	5°694	71720	15	4°096	7°017	71794	13	22°876	8°342	71868	22	16°382	10°069	71942	18	16°701	12°193
71647	14	21°939	5°117	71721	13	5°458	7°706	71795	16	23°644	8°716	71869	21	19°699	10°236	71943	17	17°719	12°226
71648	12	22°100	5°329	71722	21	6°000	7°919	71796	15	24°362	8°511	71870	12	20°479	10°593	71944	13	18°080	12°562
71649	14	22°595	5°208	71723	11	6°037	7°254	71797	14	24°718	8°237	71871	22	22°808	10°503	71945	18	18°454	12°064
71650	21	23°389	5°433	71724	12	7°199	7°824	71798	14	25°564	8°860	71872	15	23°376	10°766	71946	14	19°144	12°970
71651	15	23°650	5°600	71725	20	7°286	7°866	71799	22	0°113	9°769	71873	10	23°644	10°210	71947	13	19°930	12°876
71652	14	23°694	5°277	71726	11	7°462	7°158	71800	20	0°507	9°386	71874	10	23°983	10°464	71948	10	20°830	12°019
71653	13	24°210	5°563	71727	24	8°345	7°558	71801	26	0°519	9°875	71875	16	25°616	10°335	71949	13	21°595	12°168
71654	19	24°443	5°001	71728	11	9°722	7°021	71802	18	1°338	9°339	71876	25	0°550	11°912	71950	15	22°749	12°770
71655	18	24°460	5°190	71729	13	10°389	7°501	71803	14	2°650	9°416	71877	20	1°161	11°944	71951	12	22°809	12°110
71656	11	24°506	5°480	71730	11	12°990	7°320	71804	18	3°024	9°561	71878	16	3°255	11°797	71952	10	24°862	12°579
71657	17	24°591	5°869	71731	16	13°129	7°930	71805	11	3°273	9°750	71879	11	3°401	11°464	71953	20	0°342	13°411
71658	27	0°394	6°903	71732	24	13°155	7°820	71806	13	3°390	9°934	71880	17	4°399	11°768	71954	19	1°193	13°639
71659	19	0°802	6°282	71733	12	13°233	7°702	71807	12	3°434	9°000	71881	14	4°499	11°062	71955	17	1°855	13°833
71660	17	1°949	6°719	71734	18	13°279	7°021	71808	14	4°041	9°172	71882	11	5°511	11°089	71956	10	1°984	13°921
71661	16	2°120	6°807	71735	14	13°624	7°395	71809	12	5°050	9°261	71883	10	5°575	11°631	71957	17	2°721	13°966
71662	15	2°476	6°246	71736	15	14°350	7°646	71810	16	6°105	9°573	71884	11	5°844	11°215	71958	11	2°819	13°592
71663	17	2°754	6°990	71737	21	15°691	7°420	71811	17	6°635	9°545	71885	16	6°036	11°066	71959	17	3°135	13°649
71664	18	2°970	6°208	71738	10	16°904	7°172	71812	18	8°016	9°069	71886	12	6°233	11°445	71960	15	3°488	13°240
71665*	40	3°372	6°926	71739	13	16°937	7°733	71813	12	8°461	9°005	71887	14	6°431	11°377	71961	12	3°799	13°630
71666	17	3°513	6°404	71740	22	17°070	7°600	71814	12	8°694	9°040	71888	16	6°734	11°090	71962	11	4°158	13°705
71667	13	4°332	6°799	71741	11	17°488	7°165	71815	15	8°809	9°557	71889	14	7°134	11°888	71963	10	5°230	13°084
71668	22	4°551	6°045	71742	12	18°127	7°272	71816	16	9°906	9°811	71890	13	8°024	11°334	71964	12	6°713	13°061
71669	12	4°942	6°423	71743	14	19°318	7°650	71817	18	10°509	9°673	71891	14	9°110	11°294	71965*	22	6°906	13°667
71670	21	5°540	6°310	71744	15	19°693	7°513	71818	21	11°670	9°921	71892	13	9°342	11°705	71966	10	7°377	13°686
71671	18	5°551	6°029	71745	17	19°943	7°691	71819	13	12°500	9°910	71893	22	11°775	11°459	71967	22	7°594	13°117
71672	14	5°556	6°079	71746	11	19°953	7°110	71820	13	13°882	9°653	71894	24	12°793	11°870	71968	12	8°394	13°046
71673	13	6°155	6°736	71747	17	20°112	7°086	71821	14	14°798	9°395	71895	17	14°222	11°054	71969	14	8°405	13°793
71674	13	6°688	6°490	71748	11	21°184	7°358	71822*	40	15°272	9°719	71896	33	14°507	11°660	71970	14	9°455	13°244
71675	14	6°787	6°291	71749	10	21°330	7°089	71823	13	15°740	9°749	71897	16	15°016	11°860	71971	15	9°857	13°862
71676	13	7°414	6°477	71750	13	21°770	7°627	71824	12	15°860	9°451	71898	16	15°641	11°860	71972	15	9°930	13°302
71677	14	8°584	6°335	71751	10	21°933	7°779	71825	11	16°046	9°422	71899	17	16°700	11°171	71973	11	9°991	13°384
71678	12	8°660	6°776	71752	18	22°668	7°780	71826	14	16°272	9°040	71900	16	16°753	11°966	71974	17	11°791	13°153
71679	18	8°756	6°043	71753	17	23°290	7°306	71827	13	16°434	9°734	71901*	22	16°820	11°011	71975	19	13°215	13°320
71680	20	9°928	6°230	71754	16	23°327	7°393	71828*	38	16°758	9°227	71902	14	17°127	11°168	71976	19	13°251	13°770
71681	10	11°224	6°369	71755	11	23°898	7°395	71829	19	18°835	9°429	71903	12	19°550	11°230	71977	14	13°559	13°358
71682	18	11°767	6°916	71756	13	24°655	7°497	71830	12	19°130	9°965	71904	13	19°713	11°140	71978	18	14°491	13°753
71683	10	13°603	6°310	71757	13	25°959	7°737	71831	13	19°447	9°652	71905	17	20°228	11°071	71979	18	15°076	13°083
71684	12	14°681	6°291	71758	22	0°805	8°206	71832	16	19°766	9°539	71906	15	20°877	11°640	71980	19	15°207	13°749
71685	11	16°241	6°782	71759	20	0°901	8°920	71833	14	19°792	9°560	71907	13	21°360	11°548	71981*	30	15°509	13°526
71686	13	16°386	6°665	71760	15	1°230	8°611	71834	20	20°476	9°229	71908	13	21°409	11°729	71982	15	16°254	13°400
71687	15	16°816	6°164	71761	18	2°545	8°543	71835	13	20°824	9°510	71909	11	23°694	11°670	71983	14	17°868	13°669
71688	21	16°927	6°416	71762	18	2°907	8°727	71836	12	21°094	9°651	71910	14	23°953					

71996	19	1°357	14°224	72070	13	20°848	15°109	72144	11	12°216	17°447	72218*	40	9°700	19°481	72292	15	3°501	21°945
71997	17	1°548	14°057	72071	14	21°089	15°504	72145*	21	12°555	17°690	72219	12	10°066	19°970	72293	24	3°946	21°565
71998	14	1°843	14°246	72072	10	21°239	15°224	72146	15	13°185	17°560	72220	11	10°714	19°383	72294	20	4°947	21°334
71999	15	1°957	14°687	72073	11	21°870	15°441	72147*	18	13°514	17°890	72221	10	11°994	19°574	72295	12	5°440	21°207
72000	15	2°358	14°803	72074	19	23°283	15°227	72148	12	13°709	17°784	72222	9	12°220	19°489	72296	12	6°824	21°025
72001	15	2°858	14°855	72075	13	24°026	15°309	72149	13	14°048	17°775	72223	18	12°307	19°475	72297	14	7°255	21°223
72002	16	3°096	14°680	72076	22	24°466	15°872	72150	22	15°819	17°299	72224	10	12°465	19°039	72298	13	9°950	21°485
72003	12	4°067	14°962	72077	12	24°796	15°720	72151	12	16°054	17°837	72225	15	12°499	19°724	72299	15	10°447	21°568
72004	13	4°506	14°195	72078	10	25°009	15°361	72152	10	17°891	17°750	72226*	22	12°662	19°919	72300	13	11°308	21°380
72005*	27	4°988	14°666	72079	15	25°089	15°742	72153	10	17°985	17°503	72227	10	13°088	19°636	72301	13	11°516	21°590
72006	14	5°632	14°505	72080	17	0°162	16°247	72154	13	18°469	17°360	72228	9	14°170	19°584	72302	10	11°641	21°426
72007	13	6°032	14°732	72081	17	0°721	16°484	72155	19	18°795	17°846	72229	21	15°694	19°193	72303	17	11°704	21°311
72008	16	6°874	14°061	72082	17	1°318	16°555	72156	16	19°146	17°570	72230	18	16°139	19°340	72304	17	11°919	21°282
72009	17	7°610	14°255	72083	15	2°212	16°021	72157	10	19°470	17°541	72231	11	16°310	19°364	72305	11	12°918	21°920
72010	12	8°029	14°432	72084	17	2°633	16°056	72158	17	19°603	17°789	72232	12	16°656	19°059	72306	10	13°150	21°060
72011	12	8°262	14°250	72085	14	2°754	16°731	72159	12	19°651	17°163	72233	13	16°759	19°177	72307	13	13°974	21°157
72012	14	8°350	14°441	72086	16	3°309	16°484	72160	15	19°679	17°561	72234	13	17°456	19°008	72308	14	14°203	21°393
72013	13	9°676	14°800	72087	12	3°806	16°607	72161	21	19°738	17°395	72235	14	18°814	19°241	72309	15	14°851	21°675
72014*	33	9°800	14°904	72088	14	4°124	16°611	72162	12	20°096	17°173	72236	11	19°278	19°171	72310	11	15°757	21°190
72015*	18	10°366	14°526	72089	19	4°230	16°590	72163	12	20°729	17°567	72237	13	19°570	19°679	72311	22	15°884	21°707
72016	10	10°507	14°331	72090	13	4°255	16°091	72164	14	22°480	17°916	72238	14	19°823	19°304	72312	9	16°091	21°726
72017	14	10°542	14°562	72091	14	4°944	16°590	72165	13	22°644	17°084	72239	11	19°976	19°626	72313*	26	16°382	21°922
72018*	28	10°886	14°978	72092	10	5°200	16°697	72166	14	23°707	17°299	72240	11	20°159	19°881	72314	13	18°563	21°920
72019	15	11°960	14°139	72093	14	5°978	16°976	72167	13	24°324	17°618	72241	18	20°463	19°588	72315	11	19°575	21°453
72020	13	13°263	14°505	72094	13	6°411	16°460	72168	11	25°030	17°150	72242	17	20°600	19°343	72316	16	19°934	21°755
72021	15	15°401	14°519	72095	22	6°560	16°671	72169	26	0°227	18°502	72243	21	21°121	19°908	72317	12	20°192	21°356
72022	17	15°569	14°453	72096	19	7°174	16°990	72170	20	0°285	18°820	72244	10	21°215	19°735	72318	10	20°630	21°609
72023	16	15°827	14°077	72097	13	7°437	16°744	72171	14	2°181	18°751	72245	22	22°205	19°096	72319	24	21°039	21°258
72024	14	15°899	14°448	72098	10	8°131	16°907	72172	16	3°635	18°433	72246	12	22°324	19°779	72320	10	21°596	21°486
72025	19	16°682	14°220	72099	20	8°529	16°963	72173	14	4°028	18°972	72247	14	23°054	19°111	72321	11	22°420	21°071
72026	14	17°138	14°004	72100	10	8°551	16°222	72174	12	5°279	18°619	72248	13	23°443	19°982	72322	12	22°627	21°280
72027	15	17°747	14°354	72101	20	8°722	16°131	72175	12	5°434	18°606	72249	12	23°834	19°560	72323	18	23°234	21°380
72028	11	18°115	14°139	72102	13	8°877	16°840	72176	11	6°641	18°049	72250	20	24°846	19°209	72324	20	23°248	21°573
72029	14	18°263	14°550	72103	17	9°324	16°858	72177	13	8°700	18°238	72251	13	25°209	19°474	72325	11	23°280	21°071
72030	21	20°580	14°631	72104	16	9°733	16°064	72178	15	9°488	18°897	72252	24	0°621	20°762	72326	25	23°802	21°079
72031	14	20°745	14°423	72105	13	9°878	16°843	72179*	23	10°644	18°252	72253	15	2°284	20°332	72327	19	24°370	21°898
72032	13	21°023	14°526	72106	13	10°037	16°464	72180*	28	11°316	18°777	72254	16	2°797	20°051	72328	20	1°899	22°521
72033	14	21°661	14°770	72107	16	10°324	16°596	72181	12	12°023	18°871	72255	15	4°096	20°855	72329	27	3°583	22°956
72034	13	22°435	14°132	72108	21	10°585	16°840	72182	15	12°540	18°595	72256	22	5°470	20°960	72330	14	6°054	22°473
72035	12	23°390	14°094	72109	15	11°070	16°692	72183	21	13°317	18°582	72257	13	6°581	20°277	72331	20	6°168	22°703
72036	18	23°733	14°706	72110	18	11°855	16°233	72184	11	13°612	18°070	72258	14	6°616	20°579	72332	13	6°220	22°124
72037	14	25°394	14°195	72111	10	12°062	16°631	72185	19	14°250	18°531	72259	15	6°868	20°946	72333	15	6°470	22°972
72038*	28	25°717	14°770	72112	17	13°750	16°801	72186	14	14°608	18°229	72260	11	7°486	20°442	72334	14	7°061	22°496
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72040	17	1°504	15°308	72114	22	14°515	16°670	72188	15	18°784	18°555	72262	18	10°376	20°419	72336*	40	8°180	22°350
72041	15	1°513	15°079	72115	15	15°434	16°920	72189	14	19°662	18°804	72263	21	10°545	20°600	72337	14	8°317	22°351
72042	17	2°780	15°550	72116	15	15°818	16°536	72190	12	19°803	18°079	72264	13	10°625	20°853	72338	15	8°633	22°842
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72045	11	4°907	15°987	72119*	27	18°012	16°996	72193	15	20°697	18°847	72267	12	11°459	20°255	72341	18	9°892	22°457
72046	10	4°988	15°208	72120*	33	18°665	16°378	72194	13	21°386	18°550	72268	10	11°651	20°074	72342	17	10°725	22°836
72047	11	5°252	15°164	72121	15	19°069	16°564	72195	14	21°403	18°924	72269	13	11°879	20°338	72343	13	11°702	22°105
72048	14	7°063	15°470	72122	10	20°903	16°689	72196	15	21°517	18°913	72270	13	11°945	20°616	72344*	18	14°191	22°691
72049	13	7°202	15°884	72123	12	21°316	16°877	72197	12	21°751	18°801	72271	13	12°091	20°298	72345	17	14°574	22°337
72050	11	7°578	15°326	72124	15	21°955	16°571	72198	10	21°949	18°664	72272	12	13°487	20°160	72346	12	14°919	22°844
72051	9	7°817	15°650	72125	10	22°422	16°560	72199	16	22°160	18°988	72273	13	14°357	20°280	72347	11	16°024	22°616
72052	13	8°006	15°284	72126	13	22°711	16°413	72200	13	22°207	18°450	72274	15	14°513	20°226	72348*	18	16°462	22°887
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72054	20	8°744	15°700	72128	12	23°380	16°614	72202	13	24°596	18°426	72276	18	15°689	20°540	72350	12	16°800	22°974
72055	10	8°880	15°096	72129	13	23°920	16°730	72203	15	24°751	18°772	72277	10	15°726	20°809	72351	14	17°668	22°182
72056	12	9°547	15°040	72130	14	23°929	16°434	72204	14	24°994	18°220	72278	15	16°973	20°064	72352	10	17°760	22°595
72057	14	9°781	15°844	72131	19	24°434	16°227	72205	15	0°658	19°440	72279	12	17°263</					

72366	17	3°072	23°949	72440	12	10°841	25°972	72531	11	3°458	2°988	72605	8	12°581	6°162	72679	10	2°032	10°916
72367	16	3°939	23°777	72441	15	11°429	25°254	72532	7	3°550	2°035	72606	10	13°656	6°930	72680	8	4°487	10°337
72368	17	4°089	23°277	72442	15	13°092	25°971	72533	20	7°754	2°768	72607	8	15°157	6°341	72681	9	7°279	10°710
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72370	14	5°930	23°318	72444	14	14°879	25°012	72535	8	9°334	2°765	72609	9	18°446	6°358	72683	10	7°792	10°052
72371	16	6°073	23°917	72445	15	15°592	25°690	72536	10	9°664	2°392	72610	9	20°864	6°237	72684	11	9°115	10°732
72372	15	6°512	23°144	72446	12	15°919	25°060	72537	13	12°631	2°487	72611	7	21°089	6°170	72685	14	9°542	10°080
72373	17	6°776	23°624	72447	14	16°251	25°136	72538	10	13°435	2°957	72612	9	21°411	6°811	72686	10	11°540	10°924
72374	16	7°662	23°325	72448	13	16°264	25°904	72539	8	15°499	2°907	72613	12	22°597	6°410	72687*	32	13°935	10°428
72375	16	9°391	23°074	72449	14	16°394	25°143	72540*	29	16°750	2°452	72614	10	23°281	6°276	72688	7	14°384	10°577
72376	19	9°412	23°584	72450	13	17°033	25°583	72541	11	18°642	2°192	72615	12	23°371	6°261	72689	11	14°578	10°037
72377	16	11°030	23°252	72451	14	17°443	25°280	72542	10	19°398	2°832	72616	12	23°952	6°054	72690	8	15°778	10°411
72378	13	12°460	23°440	72452	15	18°258	25°346	72543	11	20°191	2°423	72617	12	24°206	6°932	72691	18	16°198	10°032
72379	16	13°096	23°114	72453	15	18°697	25°130	72544	18	21°384	2°708	72618	9	24°517	6°018	72692	11	16°595	10°375
72380	12	13°163	23°212	72454	16	19°964	25°051	72545	10*	21°933	2°176	72619	23	25°275	6°503	72693	9	16°932	10°258
72381	22	13°335	23°808	72455	20	20°439	25°172	72546	21	24°040	2°371	72620	12	0°476	7°678	72694	7	17°954	10°427
72382	19	13°444	23°739	72456	11	20°674	25°721	72547	20	2°075	3°524	72621	7	1°094	7°187	72695	11	18°000	10°505
72383	13	14°144	23°603	72457	15	20°687	25°227	72548	10	5°494	3°721	72622	18	4°321	7°753	72696	6	18°017	10°354
72384*	22	15°780	23°188	72458	13	24°184	25°359	72549	9	8°990	3°389	72623	12	5°759	7°661	72697	6	20°468	10°169
72385*	20	16°294	23°930	72459	21	24°217	25°544	72550	5	9°774	3°949	72624	7	6°246	7°408	72698	16	22°561	10°464
72386	13	16°538	23°532	72460	17	25°283	25°037	72551	9	13°267	3°530	72625	11	6°809	7°684	72699	20	23°421	10°898
72387	12	16°580	23°677					72552	8	13°815	3°582	72626	18	7°292	7°431	72700	7	25°464	10°960
72388	12	17°240	23°471					72553	9	17°410	3°139	72627	11	9°084	7°822	72701	26	25°688	10°945
72389	10	18°229	23°834					72554	11	18°280	3°923	72628	10	10°490	7°466	72702	8	1°827	11°145
72390	10	20°517	23°195					72555	7	22°449	3°312	72629	9	10°536	7°518	72703	13	3°746	11°511
72391	16	22°104	23°039					72556	20	25°707	3°571	72630	10	11°454	7°617	72704	11	4°240	11°024
72392	14	22°160	23°762					72557	10	1°061	4°102	72631	5	13°250	7°335	72705	9	5°323	11°767
72393*	29	22°921	23°393					72558	13	1°777	4°675	72632	9	14°148	7°403	72706	11	5°936	11°142
72394	15	23°186	23°784					72559	14	2°223	4°849	72633	13	15°523	7°103	72707	9	8°057	11°445
72395*	30	23°785	23°780					72560	13	5°400	4°715	72634	22	15°668	7°415	72708	12	8°758	11°782
72396	14	23°844	23°656					72561	7	7°669	4°820	72635	12	16°496	7°434	72709	11	8°823	11°247
72397	20	24°115	23°509					72562	8	12°888	4°636	72636	10	16°600	7°179	72710	14	11°948	11°442
72398	19	24°962	23°194					72563	21	12°987	4°421	72637	15	16°996	7°099	72711	12	12°001	11°805
72399	13	25°459	23°294					72564	8	16°552	4°698	72638	20	22°438	7°381	72712	6	14°315	11°066
72400	22	2°652	24°459					72565	9	18°622	4°241	72639	12	24°498	7°509	72713	10	16°276	11°796
72401	23	4°150	24°376					72566	9	19°666	4°862	72640	7	25°691	7°139	72714	7	18°041	11°837
72402	18	5°466	24°460					72567	10	21°599	4°207	72641	11	3°226	8°957	72715	8	18°233	11°079
72403	19	6°078	24°145					72568	12	22°079	4°930	72642	10	3°412	8°720	72716	10	18°534	11°245
72404	20	7°744	24°916					72569	7	23°352	4°329	72643	12	5°434	8°202	72717	11	19°818	11°817
72405	13	8°812	24°691					72570	11	23°391	4°961	72644	13	8°808	8°914	72718	12	21°570	11°049
72406	14	8°850	24°360					72571	10	25°704	4°224	72645	8	9°691	8°573	72719	11	21°828	11°904
72407	15	8°962	24°197					72572	20	1°167	5°300	72646	15	10°541	8°755	72720	26	23°052	11°409
72408	13	9°651	24°440					72573	15	2°245	5°038	72647	13	11°464	8°595	72721	10	4°213	12°092
72409	12	9°925	24°837					72574	10	2°386	5°723	72648	6	15°876	8°036	72722	8	5°038	12°486
72410	11	10°780	24°542					72575*	33	4°998	5°526	72649	10	16°447	8°108	72723	10	5°062	12°639
72411	20	11°470	24°209					72576	9	6°030	5°539	72650	12	17°786	8°264	72724	6	5°224	12°276
72412*	38	12°235	24°689					72577*	20	6°508	5°270	72651	6	18°496	8°657	72725	9	6°139	12°403
72413	11	12°306	24°976					72578	10	8°152	5°199	72652	10	22°194	8°166	72726	6	6°381	12°650
72414	15	12°390	24°774					72579	7	9°308	5°668	72653	13	22°724	8°502	72727	11	7°539	12°501
72415	27	13°341	24°672					72580	8	9°960	5°763	72654	6	24°688	8°024	72728	9	8°678	12°619
72416	14	13°497	24°026					72581	8	10°805	5°372	72655	13	2°790	9°308	72729	7	8°751	12°200
72417	12	13°601	24°284					72582	13	12°499	5°281	72656	6	5°176	9°138	72730	19	8°766	12°449
72418	13	14°124	24°558					72583	9	12°775	5°161	72657	10	5°806	9°275	72731	7	10°828	12°188
72419	15	15°760	24°876					72584	9	15°078	5°510	72658	7	6°187	9°967	72732*	30	11°349	12°857
72420	12	16°213	24°099					72585	8	15°860	5°143	72659	6	6°461	9°356	72733	9	11°619	12°113
72421	11	17°658	24°123					72586	8	17°597	5°618	72660	21	7°462	9°758	72734	9	13°020	12°492
72422	14	17°830	24°370					72587	7	21°356	5°141	72661	16	8°892	9°371	72735	9	14°113	12°868
72423	19	18°894	24°897					72588	11	21°358	5°715	72662	7	11°439	9°473	72736	6	17°370	12°841
72424	16	19°482	24°351					72589	7	21°838	5°293	72663	8	13°162	9°098	72737	12	17°554	12°681
72425	13	21°824	24°578					72590	20	0°183	6°855	72664	11	13°300	9°126	72738	19	17°846	12°490
72426	15	21°863	24°821					72591	11	0°485	6°891	72665	14	14°537	9°244	72739	7	17°902	12°488
72427	13	22°482	24°566					72592	15	2°093	6°696	72666	7	17°312	9°109	72740	7	18°424	12°643
72428	18	22°766	24°924					72593	8	2°193	6°205	72667	6	17°790	9°809	72741	6	19°050	12°198
72429	17	23°099	24°873					72594	9	2°470	6°707	72668	7	19°209	9°208	72742	8	19°218	12°905
72430	15	24°384	24°367					72595	11	2°955	6°075	72669	9	19°271	9°296	72743	6	19°356	12°127
72431	26	25°613	24°347					72596	10	5°392	6°463	72670	16	22°225	9°954	72744	9	22°860	12°215
72432*	27	4°958	25°331					72597	12	5°781	6°443	72671	7	22°465	9°357	72745	11	24°476	12°344
72433*	34	6°427	25°730					72598	7	7°589	6°521	72672	8	23°972	9°390	72746	11	24°478	12°212
72434	17	6°727	25°164																

72753	8	14°117	13°038	72827	8	5°179	17°153	72901	13	18°277	20°388	72975	12	15°428	23°185	73121	20	2°038	2°496
72754	8	14°519	13°312	72828	20	6°277	17°675	72902	17	19°609	20°978	72976*	36	17°623	23°244	73122	9	6°878	2°774
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72756	17	16°926	13°210	72830	10	7°418	17°386	72904	11	21°431	20°021	72978	8	22°140	23°698	73124	22	11°909	2°882
72757	10	18°847	13°078	72831	9	8°420	17°806	72905*	18	23°053	20°789	72979	17	3°715	24°335	73125	13	13°758	2°854
72758	8	20°571	13°481	72832	9	13°327	17°064	72906*	9	1°268	21°384	72980*	28	10°486	24°210	73126*	26	15°399	2°264
72759	8	21°036	13°660	72833*	20	15°540	17°709	72907	14	1°283	21°574	72981*	7	10°488	24°544	73127	11	18°135	2°121
72760	9	21°890	13°878	72834	10	15°972	17°793	72908	22	1°836	21°069	72982*	10	10°957	24°691	73128*	47	23°474	2°108
72761*	43	22°372	13°224	72835	9	16°177	17°068	72909	8	2°422	21°887	72983*	20	11°288	24°802	73129	12	3°724	3°667
72762	7	23°606	13°590	72836	10	17°314	17°958	72910	12	4°353	21°214	72984	11	11°747	24°864	73130*	59	7°759	3°863
72763	8	23°831	13°323	72837	7	21°517	17°844	72911	13	4°612	21°892	72985*	20	11°847	24°837	73131	19	8°524	3°870
72764	9	24°371	13°195	72838	8	22°205	17°300	72912	7	4°859	21°302	72986	9	14°188	24°316	73132	8	10°420	3°750
72765	12	24°877	13°944	72839	12	25°398	17°113	72913	10	6°271	21°460	72987	9	14°500	24°359	73133*	40	16°581	3°902
72766	9	1°663	14°644	72840	15	0°146	18°992	72914	9	6°638	21°995	72988*	26	15°400	24°108	73134	10	3°734	4°319
72767*	21	3°661	14°677	72841	9	2°991	18°169	72915	7	6°746	21°786	72989	8	19°110	24°601	73135	12	4°043	4°118
72768	8	4°464	14°676	72842	7	4°594	18°432	72916	10	7°739	21°396	72990	21	21°434	24°601	73136*	19	7°161	4°249
72769	9	4°499	14°561	72843	9	5°799	18°809	72917	12	8°491	21°109	72991*	55	23°298	24°294	73137	10	10°123	4°655
72770	7	4°592	14°450	72844	10	6°575	18°430	72918	9	9°219	21°267	72992	11	24°325	24°074	73138	10	10°329	4°224
72771	7	7°904	14°250	72845	11	8°786	18°974	72919	9	10°934	21°161	72993	10	2°322	25°565	73139	11	10°387	4°930
72772	14	8°181	14°599	72846	9	9°493	18°550	72920	7	11°164	21°261	72994*	11	11°363	25°779	73140	15	13°377	4°524
72773	7	9°227	14°542	72847	8	9°668	18°451	72921	8	12°683	21°345	72995	10	13°147	25°602	73141	18	17°174	4°755
72774	9	9°250	14°368	72848	7	10°450	18°510	72922	9	12°783	21°881	72996	11	14°012	25°979	73142	10	17°944	4°595
72775	9	11°701	14°581	72849	11	10°475	18°342	72923	14	13°197	21°928	72997	12	14°338	25°539	73143	15	19°530	4°113
72776	10	13°685	14°653	72850	8	10°858	18°748	72924	11	14°540	21°676	72998	10	15°037	25°717	73144*	21	22°250	4°885
72777	8	13°880	14°911	72851	7	12°323	18°888	72925	8	15°814	21°625	72999	14	16°607	25°021	73145*	34	22°381	4°866
72778	11	15°086	14°868	72852	8	12°338	18°445	72926	11	17°481	21°570	73000	10	16°853	25°604	73146	21	24°621	4°260
72779	12	15°403	14°879	72853	7	12°529	18°072	72927	8	17°564	21°190	73001	8	16°989	25°484	73147*	26	5°106	5°638
72780	10	15°740	14°242	72854	16	12°747	18°233	72928	9	18°191	21°282	73002	7	17°859	25°565	73148*	17	5°224	5°850
72781	8	17°245	14°732	72855	13	13°122	18°063	72929	11	18°362	21°010	73003	8	18°100	25°312	73149	8	8°124	5°891
72782	9	19°058	14°817	72856	7	14°998	18°370	72930	13	18°399	21°027	73004	10	18°655	25°887	73150	15	12°545	5°929
72783	12	19°426	14°855	72857	9	15°164	18°217	72931	11	18°839	21°503	73005	14	19°251	25°421	73151	21	17°764	5°461
72784	8	20°598	14°602	72858	11	16°751	18°925	72932	11	19°940	21°905					73152	11	22°411	5°111
72785	9	24°599	14°407	72859*	27	20°800	18°186	72933	9	19°949	21°159					73153	13	1°430	6°394
72786	18	25°282	14°597	72860	7	21°001	18°524	72934	12	20°192	21°113					73154	11	2°008	6°178
72787*	25	25°438	14°895	72861	8	23°480	18°153	72935	11	24°458	21°592					73155	21	3°339	6°607
72788	10	25°476	14°477	72862*	14	24°857	18°567	72936	13	25°454	21°549					73156	8	7°348	6°902
72789	14	1°218	15°177	72863	20	0°193	19°098	72937	20	2°703	22°955					73157	8	8°298	6°567
72790	18	2°419	15°811	72864	12	2°858	19°166	72938	7	5°691	22°271					73158	9	9°728	6°967
72791	7	3°043	15°670	72865	11	5°165	19°279	72939	12	6°646	22°512					73159	11	12°270	6°529
72792	9	7°338	15°117	72866	7	6°485	19°918	72940	10	8°714	22°503					73160	23	14°012	6°810
72793	7	7°740	15°279	72867	14	7°700	19°004	72941*	36	8°921	22°827					73161	24	14°371	6°295
72794	9	8°338	15°997	72868	9	8°101	19°685	72942	7	9°816	22°571					73162	8	14°718	6°050
72795	8	8°501	15°300	72869	8	8°735	19°617	72943	7	11°666	22°607					73163	17	14°960	6°680
72796	8	10°211	15°866	72870	7	9°505	19°227	72944	8	12°627	22°467					73164	12	17°822	6°806
72797	10	11°232	15°544	72871	11	10°235	19°578	72945	7	13°946	22°811					73165	22	18°916	6°752
72798	7	12°859	15°510	72872	14	12°250	19°244	72946	10	14°227	22°808					73166	6	25°199	6°405
72799	7	14°047	15°154	72873	11	13°224	19°902	72947	11	14°676	22°028					73167	23	0°519	7°531
72800*	26	15°966	15°851	72874	12	13°953	19°531	72948	8	17°447	22°824					73168	10	2°277	7°048
72801	8	16°521	15°444	72875	13	16°328	19°512	72949	9	18°716	22°683					73169	12	2°579	7°623
72802	11	17°246	15°642	72876	8	17°468	19°895	72950	13	20°501	22°802					73170	11	9°526	7°450
72803	9	20°581	15°851	72877	8	18°135	19°977	72951	10	21°111	22°981					73171	20	9°600	7°330
72804	10	20°963	15°278	72878	18	19°482	19°475	72952	7	21°638	22°037					73172*	30	13°286	7°927
72805	9	22°174	15°472	72879*	19	20°294	19°204	72953	8	23°040	22°816					73173	9	13°670	7°894
72806	11	22°358	15°993	72880	5	20°374	19°620	72954	12	23°526	22°474					73174*	25	17°564	7°907
72807	10	24°217	15°977	72881	12	21°584	19°422	72955	7	25°475	22°916					73175*	29	20°988	7°391
72808	11	24°583	15°327	72882	21	22°139	19°277	72956*	25	0°983	23°419					73176	14	22°351	7°029
72809	12	25°782	15°899	72883*	8	25°257	19°953	72957*	21	1°858	23°794					73177	17	23°355	7°323
72810	12	2°394	16°167	72884	8	2°133	20°932	72958	6	2°187	23°514					73178	10	0°819	8°644
72811	11	2°422	16°659	72885	12	4°713	20°608	72959	8	3°039	23°184					73179*	21	9°948	8°836
72812	14	6°386	16°766	72886*	20	6°184	20°600	72960	12	4°271	23°494					73180	9	10°981	8°037
72813	8	7°328	16°872	72887	10	6°884	20°366	72961*	34	6°188	23°795					73181	14	12°397	8°846
72814	7	7°973	16°116	72888	9	7°823	20°667	72962	10	6°643	23°973					73182	7	16°954	8°189
72815	11	7°987	16°751	72889	12	7°996	20°506	72963	13	6°907	23°710					73183*	29	18°080	8°450
72816	10	9°898	16°626	72890	8	9°028	20°422	72964*	21	7°380	23°733					73184	8	18°343	8°916
72817	7	10°238	16°261	72891	10	9°214	20°537	72965	7	8°118	23°927					73185	7	18°489	8°662
72818	7	11°477	16°508	72892	8	9°911	20°316	72966	19	8°461	23°923					73186	16	23°550	8°153
72819	10	13°787	16°919	72893	9	10°035	20°865	72967	7	9°778	23°790								

73195	16	13°873	9°700	73269	16	10°210	15°324	73343	10	16°771	21°679	73404	8	4°127	0°145	73478*	18	18°933	7°464
73196	7	13°982	9°379	73270	10	12°202	15°835	73344	11	17°960	21°030	73405	18	5°921	0°216	73479	6	21°506	7°425
73197	12	15°793	9°880	73271	11	18°496	15°371	73345*	38	19°159	21°274	73406	7	17°343	0°333	73480	10	24°800	7°766
73198	20	19°849	9°159	73272	20	23°601	15°856	73346	9	22°539	21°279	73407	13	23°866	0°287	73481	10	25°400	7°430
73199	11	21°451	9°260	73273	10	24°013	15°905	73347	12	22°807	21°421	73408*	39	3°869	1°677	73482	16	1°575	8°214
73200*	36	23°873	9°949	73274	14	2°106	16°194	73348*	11	7°377	22°880	73409	18	4°707	1°723	73483	9	5°690	8°685
73201	7	25°088	9°649	73275	9	2°435	16°100	73349*	18	7°637	22°599	73410	8	12°002	1°921	73484	6	6°130	8°930
73202	18	0°347	10°104	73276	12	8°820	16°264	73350*	38	8°863	22°841	73411	9	12°233	1°218	73485*	18	6°697	8°290
73203	17	0°690	10°610	73277	11	9°034	16°271	73351	21	8°947	22°242	73412	14	14°269	1°714	73486	6	7°350	8°314
73204	18	10°895	10°015	73278*	24	10°555	16°529	73352	7	9°348	22°493	73413	10	14°466	1°032	73487	7	8°833	8°355
73205	11	12°358	10°840	73279	7	12°810	16°169	73353	13	10°064	22°716	73414	10	15°240	1°677	73488	12	9°076	8°656
73206	18	13°217	10°590	73280*	19	14°920	16°876	73354	12	10°301	22°660	73415	8	15°380	1°849	73489	12	10°569	8°920
73207	13	13°340	10°644	73281*	20	17°439	16°980	73355	11	11°014	22°691	73416	9	22°763	1°849	73490	21	14°066	8°766
73208	11	18°570	10°093	73282	8	19°080	16°206	73356*	30	18°269	22°257	73417	8	22°992	1°951	73491	12	14°527	8°721
73209	11	19°247	10°079	73283	12	20°151	16°052	73357*	81	24°071	22°010	73418	14	23°036	1°315	73492	13	15°481	8°281
73210	13	19°948	10°121	73284	11	20°216	16°035	73358	20	25°124	22°125	73419*	57	1°436	2°165	73493	7	17°372	8°275
73211	13	20°320	10°160	73285	10	21°381	16°211	73359	7	5°158	23°961	73420	11	8°373	2°085	73494	8	20°636	8°661
73212	11	21°398	10°431	73286	10	24°741	16°159	73360	10	5°882	23°591	73421	12	12°484	2°087	73495	7	20°879	8°350
73213	13	21°951	10°736	73287	11	3°634	17°213	73361	13	6°751	23°864	73422	5	12°556	2°076	73496	10	22°806	8°167
73214	24	1°195	11°547	73288	14	4°489	17°738	73362	11	9°457	23°232	73423	14	16°321	2°902	73497	12	24°100	8°719
73215	26	1°558	11°030	73289	10	6°043	17°241	73363	9	10°890	23°767	73424	6	16°737	2°926	73498	11	24°274	8°196
73216	8	3°601	11°059	73290	9	8°197	17°420	73364	10	12°159	23°248	73425	21	23°013	2°966	73499	16	25°845	8°930
73217	22	3°826	11°039	73291	12	11°083	17°726	73365*	36	13°438	23°030	73426	8	25°388	2°707	73500	10	3°126	9°696
73218	6	6°062	11°781	73292	10	11°931	17°906	73366	8	13°772	23°622	73427	13	4°696	3°231	73501	11	4°387	9°878
73219	8	8°229	11°996	73293	8	12°385	17°670	73367	12	16°215	23°290	73428	17	5°730	3°267	73502	19	4°411	9°891
73220	13	9°509	11°551	73294*	24	14°754	17°359	73368	10	16°709	23°457	73429*	33	11°435	3°067	73503	17	6°124	9°597
73221	12	13°900	11°882	73295*	45	16°840	17°717	73369	9	17°337	23°379	73430*	21	12°202	3°313	73504	9	6°598	9°442
73222	8	17°771	11°507	73296	7	17°159	17°110	73370	7	19°127	23°272	73431*	31	12°489	3°868	73505	9	7°862	9°844
73223	11	19°926	11°340	73297	11	17°347	17°641	73371	14	19°389	23°936	73432*	45	13°332	3°724	73506	18	9°163	9°074
73224	9	20°979	11°084	73298	12	19°662	17°332	73372	6	21°498	23°650	73433*	22	15°576	3°776	73507	15	13°339	9°172
73225	8	22°206	11°430	73299	21	20°761	17°634	73373	15	24°276	23°526	73434	11	17°056	3°516	73508	5	17°347	9°761
73226	19	22°367	11°409	73300*	22	21°117	17°402	73374	13	24°705	23°660	73435	5	20°878	3°175	73509	11	17°460	9°341
73227*	73	22°809	11°582	73301*	15	3°115	18°675	73375	15	24°918	23°887	73436	11	22°059	3°902	73510	6	17°767	9°614
73228	10	23°017	11°491	73302	10	5°665	18°409	73376	25	25°808	23°598	73437	17	23°873	3°198	73511*	20	19°994	9°568
73229	11	2°632	12°460	73303	12	11°437	18°660	73377*	60	1°650	24°426	73438*	21	0°240	4°956	73512	9	20°278	9°954
73230	10	2°635	12°331	73304	18	13°157	18°800	73378	10	12°186	24°315	73439*	35	0°373	4°940	73513	12	0°004	10°812
73231	22	3°908	12°574	73305	8	14°402	18°769	73379	8	13°002	24°383	73440	19	2°606	4°307	73514*	37	1°918	10°004
73232	11	4°912	12°714	73306	11	18°940	18°445	73380	11	13°706	24°621	73441	12	18°920	4°486	73515	7	2°937	10°735
73233	13	8°055	12°431	73307	10	19°450	18°071	73381	13	15°161	24°670	73442	23	20°360	4°798	73516	10	4°936	10°902
73234	17	9°230	12°012	73308	12	19°719	18°442	73382	14	17°695	24°850	73443	11	21°641	4°226	73517	9	10°851	10°499
73235	9	13°154	12°164	73309	10	21°508	18°449	73383	12	19°061	24°458	73444	14	21°764	4°004	73518	9	11°540	10°566
73236	15	14°039	12°546	73310*	20	21°940	18°840	73384	11	20°040	24°317	73445	11	0°401	5°182	73519	10	12°326	10°808
73237*	13	14°610	12°700	73311*	71	24°704	18°450	73385	16	23°329	24°486	73446	8	4°559	5°099	73520	21	20°036	10°940
73238	20	15°529	12°635	73312	24	0°408	19°429	73386	13	5°140	25°569	73447	13	4°699	5°830	73521	11	21°511	10°862
73239	10	18°380	12°715	73313	10	5°262	19°669	73387*	19	16°702	25°301	73448	11	6°517	5°608	73522*	53	22°011	10°300
73240	12	22°199	12°878	73314	9	8°351	19°054	73388	8	18°080	25°133	73449	11	9°260	5°772	73523	21	23°290	10°452
73241	10	24°219	12°999	73315	12	11°816	19°400	73389	10	18°652	25°137	73450	7	15°889	5°555	73524	10	23°719	10°787
73242*	18	0°546	13°374	73316	19	12°338	19°936	73390*	25	20°834	25°633	73451	26	18°793	5°680	73525	10	0°263	11°506
73243*	12	5°979	13°261	73317	7	12°351	19°434	73391*	20	23°201	25°803	73452*	34	19°336	5°029	73526	18	0°427	11°481
73244	9	8°990	13°023	73318	11	12°782	19°060					73453*	26	20°001	5°049	73527*	69	0°871	11°652
73245*	40	9°020	13°763	73319*	10	13°170	19°170					73454	9	20°804	5°908	73528	12	1°079	11°556
73246	8	9°118	13°161	73320	12	14°476	19°452					73455	11	22°697	5°963	73529	8	4°349	11°360
73247	12	11°299	13°580	73321	7	15°149	19°090					73456	8	3°899	6°000	73530	7	5°241	11°951
73248	10	16°840	13°754	73322	11	16°386	19°809					73457	21	4°279	6°117	73531	8	6°749	11°629
73249	9	17°714	13°174	73323	8	20°575	19°334					73458	6	4°817	6°199	73532	9	7°916	11°624
73250*	30	19°970	13°928	73324	18	21°215	19°415					73459	12	5°889	6°939	73533	6	9°260	11°475
73251	12	24°371	13°345	73325*	23	24°543	19°023					73460*	30	6°869	6°129	73534	8	12°767	11°358
73252	9	3°059	14°050	73326	20	25°108	19°284					73461	12	9°019	6°778	73535	10	14°385	11°666
73253	14	3°478	14°700	73327	23	25°842	19°905					73462	10	11°046	6°706	73536	17	15°535	11°432
73254*	25	3°640	14°993	73328*	15	1°349	20°929					73463	13	13°085	6°850	73537	10	17°352	11°952
73255	9	3°669	14°576	73329*	8	3°537	20°052					73464	12	13°808	6°379	73538	9	20°607	11°594
73256*	31	4°547	14°460	73330	8	3°933	20°916					73465	7	13°927	6°590	73539	13	21°288	11°545
73257	14	10°923	14°821	73331	10	4°844	20°369					73466	9	14°199	6°395	73540	13	0°279	12°952
73258	20	11°269	14°729	73332	8	14°276	20°135					73467	9	17°425	6°231	73541	10	4°737	12°882
73259	9	16°181	14°331	73333	7	15°709													

73552	5	24°57'1	12°36'0	73626*	31	16°57'8	17°61'2	73700	15	22°19'9	22°18'0	73817*	29	9°16'9	1°47'4	73891	11	22°93'1	5°67'8
73553*	25	24°79'5	12°35'5	73627	12	17°88'3	17°09'3	73701	17	22°25'0	22°65'1	73818	10	9°21'8	1°59'0	73892	24	25°70'8	5°65'9
73554	25	2°29'7	13°05'2	73628	12	17°98'1	17°38'5	73702	13	2°47'0	23°58'0	73819	20	10°68'0	1°54'6	73893	11	4°89'8	6°63'4
73555	13	2°45'4	13°39'8	73629*	19	20°63'8	17°29'5	73703	17	2°90'0	23°71'1	73820	18	10°83'6	1°06'1	73894	8	5°16'1	6°18'0
73556	11	5°11'6	13°04'2	73630	23	23°12'4	17°03'9	73704	14	3°11'4	23°93'3	73821	10	10°93'0	1°98'7	73895	8	7°76'7	6°06'1
73557	21	5°45'8	13°87'0	73631	10	23°37'1	17°93'0	73705	21	4°00'1	23°63'4	73822	11	11°85'9	1°97'9	73896	10	7°88'2	6°21'1
73558	9	7°25'2	13°06'0	73632	15	23°62'1	17°02'9	73706	9	6°03'4	23°21'6	73823	7	13°84'5	1°36'7	73897	11	10°96'2	6°51'2
73559	11	13°23'8	13°40'6	73633	12	24°62'5	17°33'0	73707	8	8°41'7	23°06'8	73824	7	18°14'3	1°59'7	73898	12	12°44'8	6°23'0
73560*	33	14°95'4	13°15'4	73634*	21	0°08'2	18°91'9	73708	9	8°46'9	23°03'4	73825	9	18°23'0	1°19'6	73899	26	15°30'6	6°28'9
73561	7	20°23'4	13°80'0	73635*	58	2°84'1	18°50'0	73709	6	18°10'8	23°68'1	73826	12	19°54'9	1°36'1	73900	11	17°11'2	6°90'8
73562*	23	22°59'4	13°22'5	73636*	27	4°40'3	18°40'5	73710	12	20°23'8	23°74'7	73827	9	19°71'2	1°49'8	73901	14	17°40'5	6°34'0
73563	6	25°59'8	13°89'0	73637	11	4°45'1	18°74'1	73711	9	20°53'3	23°89'3	73828*	42	20°56'0	1°38'7	73902	9	17°65'7	6°06'6
73564	12	0°66'6	14°34'8	73638	9	5°22'7	18°04'5	73712	6	20°69'4	23°01'6	73829	10	21°57'9	1°93'3	73903	20	17°67'5	6°56'2
73565	13	0°90'0	14°82'7	73639	6	7°56'7	18°47'0	73713	20	21°84'8	23°72'2	73830	16	24°37'4	1°78'1	73904*	41	21°57'2	6°88'2
73566	16	1°75'3	14°64'5	73640	8	10°82'1	18°04'2	73714	10	1°46'9	24°55'2	73831	30	0°91'2	2°99'2	73905	8	21°71'9	6°83'3
73567	14	2°39'9	14°56'5	73641	10	13°34'6	18°42'0	73715	13	1°53'2	24°55'0	73832	14	3°28'5	2°69'4	73906	24	23°25'1	6°42'6
73568	12	3°89'8	14°20'0	73642*	43	13°46'2	18°86'9	73716	8	7°35'8	24°93'9	73833	16	4°38'6	2°64'8	73907	10	24°33'9	6°46'4
73569	12	4°01'9	14°59'0	73643	11	17°65'9	18°75'5	73717	9	9°17'3	24°78'7	73834	11	6°16'4	2°25'8	73908	13	2°49'0	7°31'2
73570	8	4°77'8	14°97'8	73644	9	18°89'7	18°05'0	73718*	11	10°44'4	24°88'6	73835	7	10°43'0	2°06'1	73909	14	2°77'2	7°76'6
73571	12	4°96'8	14°97'2	73645	12	19°48'7	18°72'3	73719	14	12°24'3	24°96'2	73836	9	10°53'1	2°86'8	73910	20	3°36'4	7°42'1
73572	9	10°60'3	14°68'4	73646	8	20°49'9	18°99'4	73720*	34	13°45'4	24°80'0	73837	16	12°22'6	2°51'3	73911	10	4°61'9	7°82'2
73573	11	10°78'7	14°51'1	73647	14	21°74'5	18°42'8	73721	8	13°97'0	24°49'4	73838	22	16°45'0	2°73'5	73912	17	5°08'3	7°15'3
73574	7	11°29'2	14°17'6	73648*	23	24°30'6	18°25'0	73722	7	14°50'8	24°64'7	73839	10	16°87'1	2°70'0	73913	11	5°82'9	7°15'5
73575	9	12°79'0	14°52'8	73649	16	24°41'8	18°53'7	73723	9	15°76'7	24°72'7	73840	13	18°63'9	2°55'0	73914	10	7°60'0	7°64'0
73576	20	13°10'8	14°94'8	73650	10	25°85'5	18°46'5	73724*	25	18°87'8	24°30'6	73841	12	19°88'7	2°58'6	73915	13	12°74'2	7°98'9
73577	11	15°60'9	14°26'1	73651*	23	2°68'9	19°07'3	73725	8	19°54'0	24°73'2	73842	22	23°19'1	2°41'6	73916	9	14°12'9	7°20'0
73578	7	17°03'5	14°13'5	73652	17	3°25'6	19°33'0	73726*	17	1°42'0	25°87'7	73843	20	1°77'4	3°21'0	73917	14	15°11'9	7°82'2
73579	15	17°97'4	14°27'6	73653	11	3°72'0	19°70'9	73727	10	2°20'2	25°18'9	73844	6	2°88'3	3°89'3	73918	7	17°47'8	7°33'0
73580	10	19°38'3	14°76'9	73654	21	3°99'9	19°94'2	73728*	30	4°63'8	25°29'2	73845	14	3°95'1	3°81'5	73919	13	19°32'9	7°75'7
73581	18	19°49'9	14°71'8	73655	11	4°15'0	19°34'9	73729	8	10°80'9	25°34'0	73846	12	6°04'2	3°43'7	73920	11	22°61'7	7°64'6
73582	7	20°71'5	14°26'4	73656	8	9°74'3	19°43'3	73730	8	13°51'5	25°16'8	73847	13	6°97'2	3°10'7	73921	8	22°79'7	7°17'3
73583	8	20°77'0	14°61'5	73657	14	10°90'6	19°47'8	73731*	11	15°61'3	25°71'9	73848	11	8°20'9	3°48'9	73922*	30	22°88'6	7°49'2
73584	8	21°24'6	14°76'0	73658	9	15°08'0	19°80'8	73732	19	16°43'5	25°27'5	73849	12	9°82'0	3°37'7	73923	12	25°32'2	7°26'7
73585	21	1°71'2	15°91'8	73659	9	16°36'9	19°30'5	73733*	39	20°88'9	25°35'0	73850	10	10°78'5	3°95'6	73924	15	0°78'0	8°19'6
73586	7	1°82'1	15°18'2	73660	8	16°51'3	19°62'2	73734*	20	22°12'5	25°38'9	73851	15	11°15'9	3°82'0	73925	16	2°08'8	8°72'8
73587	7	1°83'8	15°94'5	73661*	28	19°25'8	19°94'7					73852	22	12°13'7	3°66'0	73926	17	2°25'0	8°20'4
73588	8	2°12'9	15°96'5	73662	10	20°20'4	19°62'3					73853	12	12°97'1	3°78'0	73927	19	3°83'3	8°91'1
73589	9	5°63'7	15°67'8	73663	12	20°70'5	19°65'4					73854	10	13°46'7	3°65'9	73928	10	4°34'8	8°15'5
73590	13	7°02'5	15°74'4	73664	11	23°62'1	19°22'9					73855	9	14°16'0	3°80'0	73929	11	5°87'8	8°41'9
73591	9	8°18'2	15°62'6	73665*	20	23°65'3	19°36'4					73856	9	15°81'3	3°73'2	73930	12	13°77'1	8°08'3
73592	10	10°77'5	15°35'6	73666	9	6°21'3	20°80'0					73857	9	16°68'0	3°23'5	73931	9	14°71'5	8°95'6
73593	12	12°35'6	15°97'2	73667*	19	9°25'8	20°62'2					73858	13	20°80'2	3°95'9	73932	13	14°86'0	8°42'5
73594	9	18°25'1	15°49'0	73668	9	15°94'6	20°18'0					73859	11	21°79'4	3°05'3	73933	10	14°92'7	8°46'1
73595	11	19°31'0	15°59'2	73669	9	16°42'9	20°32'0					73860	13	22°74'3	3°44'0	73934	9	15°69'9	8°36'0
73596	9	19°36'4	15°97'6	73670	7	17°67'4	20°80'7					73861	9	1°79'4	4°24'9	73935	23	16°38'4	8°07'0
73597	15	19°77'0	15°67'6	73671	9	18°15'4	20°33'4					73862	8	3°18'8	4°45'1	73936	13	17°74'2	8°24'1
73598	6	20°15'7	15°26'9	73672	7	19°30'4	20°04'0					73863	8	4°98'3	4°15'4	73937	14	20°31'0	8°28'7
73599	12	21°32'1	15°20'2	73673*	30	20°04'5	20°34'1					73864	8	6°72'4	4°08'4	73938	9	21°83'9	8°71'3
73600	11	2°85'5	16°20'4	73674	9	20°12'0	20°21'4					73865	15	7°06'8	4°12'4	73939	19	21°95'0	8°26'3
73601	10	5°51'8	16°05'4	73675*	15	20°74'2	20°64'0					73866	15	7°13'6	4°08'3	73940	10	22°95'7	8°39'2
73602	7	6°25'8	16°04'2	73676*	37	21°55'0	20°17'9					73867	13	8°65'0	4°86'5	73941	19	23°49'2	8°78'5
73603*	29	10°10'1	16°78'6	73677*	17	22°66'0	20°71'1					73868	14	9°11'6	4°94'8	73942	15	23°81'1	8°27'1
73604	16	12°20'4	16°70'5	73678	10	23°87'9	20°45'0					73869	18	9°32'0	4°37'0	73943	22	24°74'1	8°67'1
73605	12	13°58'8	16°26'1	73679	8	0°98'0	21°49'4					73870	9	10°21'2	4°58'6	73944	25	24°84'7	8°24'8
73606	8	13°63'1	16°48'5	73680	11	6°96'1	21°35'3					73871	13	10°50'1	4°31'0	73945	12	8°50'2	9°06'4
73607	8	15°73'4	16°58'9	73681	17	7°10'3	21°69'0					73872*	32	11°88'3	4°64'0	73946	17	9°29'1	9°30'9
73608	11	15°94'0	16°64'1	73682	11	7°55'3	21°74'8					73873*	16	12°07'6	4°55'3	73947	14	9°29'9	9°72'4
73609	13	16°54'7	16°32'5	73683	8	8°20'3	21°27'9					73874	11	12°29'9	4°88'8	73948*	29	9°80'4	9°59'2
73610	10	17°37'7	16°82'8	73684	10	8°46'9	21°00'8					73875	18	12°77'5	4°20'5	73949	10	14°61'8	9°75'8
73611*	33	19°59'1	16°88'3	73685	15	16°32'8	21°00'0					73876	9	15°42'7	4°81'9	73950	13	15°93'5	9°71'2
73612	10	19°84'2	16°16'2	73686	8	17°62'1	21°08'7					73877	10	17°00'8	4°59'0	73951	9	16°79'0	9°96'3
73613	9	20°98'6	16°20'0	73687	8	18°11'9	21°02'1					73878	14	17°26'1	4°64'4	73952	13	17°81'9	9°55'4
73614	12	21°51'9	16°35'1	73688	8	19°38'9	21°57'5					73879	14	18°22'9	4°77				

73965	11	8.909	10.605	74039	8	19.031	13.029	74113	13	1.727	17.043	74187	12	23.507	21.943	74308	15	10.439	0.491
73966	12	9.435	10.856	74040	9	19.980	13.820	74114	16	2.736	17.330	74188	21	0.381	22.219	74309	14	11.617	0.770
73967	12	11.408	10.766	74041	8	20.489	13.600	74115	7	7.498	17.133	74189	24	0.435	22.690	74310	11	12.680	0.451
73968	13	12.853	10.537	74042	10	4.959	14.967	74116	9	7.587	17.870	74190	12	4.298	22.289	74311	13	12.964	0.690
73969	9	13.436	10.434	74043	13	5.073	14.999	74117	8	7.696	17.879	74191	13	4.343	22.340	74312	14	13.544	0.807
73970	10	14.259	10.879	74044	12	6.593	14.839	74118	8	11.218	17.012	74192	16	5.299	22.669	74313	16	13.771	0.599
73971	7	15.799	10.227	74045	18	9.407	14.912	74119	7	11.974	17.936	74193	23	7.919	22.753	74314	11	14.055	0.893
73972	12	16.020	10.236	74046*	22	10.299	14.053	74120	10	12.146	17.747	74194	11	9.199	22.779	74315	17	15.819	0.124
73973	9	16.738	10.439	74047	9	10.531	14.484	74121	10	18.272	17.209	74195*	47	9.416	22.902	74316	12	16.411	0.791
73974	9	17.024	10.844	74048	9	11.386	14.673	74122	11	19.081	17.792	74196	15	11.505	22.928	74317	14	17.156	0.212
73975	14	18.827	10.779	74049	9	12.137	14.718	74123	8	20.307	17.849	74197	11	13.612	22.622	74318	21	18.152	0.032
73976	7	19.150	10.593	74050*	32	13.886	14.978	74124	11	20.342	17.348	74198*	22	17.979	22.468	74319	13	18.853	0.309
73977	10	19.638	10.052	74051	10	14.767	14.900	74125	8	21.779	17.242	74199	12	18.715	22.994	74320	12	20.857	0.806
73978	15	21.413	10.681	74052	9	14.965	14.289	74126	18	22.309	17.893	74200	14	19.731	22.844	74321	13	21.061	0.679
73979	21	21.648	10.330	74053*	31	15.063	14.716	74127	15	23.294	17.390	74201	17	21.916	22.742	74322	19	21.802	0.375
73980	18	2.192	11.677	74054	12	15.352	14.960	74128	17	25.980	17.741	74202	25	0.050	23.771	74323	21	23.036	0.568
73981	15	4.277	11.734	74055	16	16.654	14.362	74129*	35	2.432	18.254	74203*	27	4.748	23.286	74324*	26	23.800	0.079
73982	17	5.518	11.110	74056	9	18.307	14.150	74130	21	2.546	18.542	74204	5	6.272	23.788	74325	26	2.665	1.790
73983	16	6.310	11.479	74057	16	18.604	14.811	74131	13	3.985	18.448	74205	13	6.295	23.319	74326*	29	6.011	1.093
73984	24	7.016	11.201	74058	17	19.411	14.351	74132*	35	5.542	18.417	74206*	24	7.529	23.468	74327	17	6.989	1.790
73985	11	10.227	11.471	74059	10	19.749	14.058	74133	7	5.676	18.356	74207	15	7.899	23.120	74328	15	8.031	1.958
73986	15	10.827	11.689	74060	9	21.522	14.263	74134*	23	8.515	18.485	74208	10	8.725	23.425	74329	11	9.533	1.662
73987	11	12.251	11.491	74061	9	22.729	14.499	74135	14	11.125	18.668	74209*	23	10.709	23.721	74330	12	10.706	1.847
73988	6	14.098	11.964	74062	23	23.964	14.580	74136	9	13.107	18.325	74210*	13	11.929	23.929	74331	15	12.279	1.026
73989	9	14.392	11.328	74063	8	25.836	14.676	74137	14	15.052	18.378	74211	10	12.569	23.301	74332	20	12.946	1.627
73990*	37	15.247	11.739	74064	10	4.627	15.500	74138	23	16.650	18.761	74212	11	16.215	23.583	74333	10	14.192	1.593
73991	6	16.681	11.102	74065	8	5.300	15.068	74139	13	17.728	18.377	74213	13	17.903	23.163	74334*	31	15.484	1.853
73992	7	17.055	11.849	74066	17	5.486	15.552	74140	12	20.589	18.250	74214*	33	19.793	23.247	74335	13	15.600	1.926
73993	10	19.552	11.050	74067	15	7.900	15.635	74141	10	21.849	18.752	74215*	47	6.914	24.101	74336	10	15.822	1.021
73994	9	22.256	11.104	74068	11	9.008	15.500	74142	13	22.078	18.375	74216	7	9.145	24.829	74337	10	16.020	1.822
73995	12	0.088	12.349	74069	24	10.022	15.228	74143	32	22.844	18.142	74217	13	10.085	24.017	74338	9	16.057	1.266
73996	15	2.165	12.193	74070	9	11.021	15.543	74144	28	23.221	18.948	74218*	31	11.321	24.128	74339	16	16.715	1.984
73997	10	2.276	12.238	74071	11	12.213	15.845	74145	9	25.821	18.164	74219*	30	11.362	24.130	74340	10	17.839	1.534
73998	6	2.608	12.361	74072	10	12.919	15.861	74146	13	1.760	19.245	74220	22	12.230	24.741	74341	12	18.380	1.644
73999*	29	2.831	12.354	74073	9	13.126	15.757	74147*	22	1.794	19.381	74221	18	15.649	24.029	74342	10	18.420	1.857
74000	25	8.414	12.561	74074	7	15.282	15.515	74148	7	3.978	19.341	74222	16	23.169	24.939	74343	24	18.511	1.543
74001	9	8.914	12.026	74075	10	16.471	15.938	74149	13	6.569	19.203	74223*	26	0.353	25.430	74344	10	18.767	1.551
74002	27	9.233	12.834	74076	13	17.367	15.871	74150	10	8.707	19.880	74224	14	10.872	25.576	74345	10	19.516	1.324
74003	9	9.890	12.513	74077	11	17.733	15.130	74151	13	9.780	19.165	74225	19	12.869	25.124	74346	20	21.171	1.785
74004	14	10.006	12.881	74078	14	18.556	15.854	74152	11	10.021	19.227	74226	13	14.719	25.349	74347	11	21.246	1.731
74005	9	10.138	12.556	74079	18	19.476	15.839	74153	8	11.064	19.870	74227	15	18.161	25.142	74348	20	21.413	1.279
74006	5	10.973	12.503	74080	29	21.047	15.968	74154	10	11.199	19.435	74228	9	19.392	25.317	74349*	29	21.748	1.183
74007	17	11.084	12.390	74081	7	21.972	15.016	74155	9	12.565	19.850	74229	29	21.400	25.828	74350*	33	22.931	1.001
74008	9	12.192	12.113	74082	16	23.991	15.514	74156	11	16.315	19.448	74230	24	23.350	25.263	74351	14	23.293	1.544
74009	13	12.782	12.712	74083*	24	24.068	15.601	74157*	32	22.736	19.622					74352	29	1.499	2.429
74010	9	12.837	12.592	74084	11	0.046	16.091	74158*	24	0.821	20.742					74353	27	6.919	2.080
74011	13	13.734	12.085	74085	13	1.781	16.812	74159	15	2.035	20.461					74354	10	7.570	2.727
74012	8	13.914	12.973	74086	9	3.700	16.150	74160	13	5.022	20.878					74355	12	8.888	2.853
74013	9	14.187	12.184	74087	13	3.962	16.909	74161	7	7.184	20.327					74356*	32	12.347	2.436
74014	15	14.614	12.686	74088	7	5.565	16.400	74162*	41	7.316	20.641					74357	11	12.472	2.204
74015	24	15.621	12.994	74089	19	7.542	16.712	74163	11	9.433	20.412					74358	12	13.588	2.495
74016	15	16.954	12.966	74090	25	9.212	16.203	74164	9	11.649	20.311					74359	12	14.649	2.974
74017	7	18.601	12.135	74091	10	12.226	16.735	74165	10	12.379	20.328					74360	13	14.918	2.798
74018	12	18.618	12.991	74092	7	12.333	16.811	74166	23	12.437	20.011					74361	15	16.776	2.405
74019	14	18.632	12.997	74093	8	12.893	16.849	74167	14	14.391	20.534					74362	12	17.390	2.643
74020	19	21.040	12.201	74094	12	13.300	16.560	74168	17	14.460	20.938					74363	12	18.282	2.754
74021	12	21.895	12.046	74095	10	13.312	16.680	74169	9	15.619	20.154					74364	13	19.421	2.982
74022	12	22.738	12.515	74096	5	13.325	16.694	74170	10	19.629	20.070					74365	13	19.823	2.304
74023	24	22.977	12.111	74097	12	16.678	16.049	74171*	34	21.023	20.272					74366	14	19.937	2.183
74024	19	25.185	12.045	74098	7	17.013	16.309	74172	7	2.871	21.094					74367	11	20.977	2.214
74025*	31	0.642	13.254	74099	8	17.509	16.158	74173	13	5.818	21.035					74368	12	22.082	2.569
74026	19	3.655	13.878	74100	7	18.270	16.997	74174	10	7.704	21.277					74369	18	22.171	2.156
74027	9	3.976	13.177	74101	13	18.390	16.770	74175*	21	9.345	21.344					74370	17	23.716	2.199
74028	10	4.872	13.756	74102	18	18.608	16.935	74176*	23	10.237	21.740					74371	26	0.114	3.072
74029	18	8.420	13.068	74103	9	19.069	16.262	74177	15	11.670	21.438								

74382	19	8°926	3'407	74456*	23	21°737	5'815	74530	12	23°586	8°743	74604	15	15°130	12°453	74678	17	7°961	15°910
74383	12	9°624	3'981	74457	11	21°801	5'537	74531	10	24°974	8°944	74605	16	16°469	12°119	74679	13	9°157	15°060
74384	15	10°720	3'045	74458	9	22°424	5'656	74532	15	1°231	9°953	74606	13	17°248	12°940	74680*	21	10°083	15°951
74385	22	12°298	3'498	74459	10	22°494	5'379	74533	19	1°504	9°120	74607	13	19°651	12°811	74681*	100	13°276	15°135
74386	11	13°253	3'076	74460	10	24°150	5'183	74534	20	1°658	9°808	74608	22	20°512	12°268	74682	18	15°898	15°350
74387*	11	13°476	3'355	74461	12	24°895	5'710	74535	16	1°734	9°821	74609	12	20°793	12°192	74683	17	19°480	15°019
74388*	29	14°318	3'692	74462	17	0°075	6°819	74536	18	1°735	9°379	74610	10	22°333	12°711	74684	10	20°737	15°081
74389	12	15°456	3'761	74463	26	1°591	6°408	74537	10	2°793	9°308	74611	12	22°820	12°627	74685	12	21°252	15°866
74390	12	15°660	3'007	74464	18	2°666	6°430	74538	14	5°284	9°711	74612	14	23°826	12°640	74686	11	22°484	15°381
74391	12	17°778	3'956	74465	22	5°057	6°805	74539	13	6°758	9°794	74613	14	24°770	12°271	74687	12	23°842	15°528
74392	13	18°201	3'531	74466	13	6°610	6°975	74540	10	8°673	9°567	74614	15	25°031	12°090	74688*	38	24°836	15°948
74393	12	18°729	3'226	74467	10	7°880	6°276	74541	12	9°402	9°309	74615	18	0°450	13°057	74689	13	25°191	15°356
74394	10	20°182	3°570	74468	12	8°630	6°279	74542	11	10°953	9°050	74616	15	0°801	13°337	74690	10	25°604	15°725
74395	15	21°264	3°470	74469	13	8°896	6°102	74543*	43	11°911	9°546	74617	15	2°192	13°859	74691	12	25°709	15°977
74396	10	21°339	3°238	74470	19	10°521	6°170	74544	17	12°818	9°530	74618	15	2°721	13°212	74692	18	1°057	16°652
74397	17	21°474	3°240	74471	17	11°197	6°934	74545	9	13°363	9°590	74619	13	3°624	13°295	74693	20	1°445	16°683
74398	10	22°307	3°959	74472	16	12°112	6°026	74546	21	14°477	9°876	74620	11	3°724	13°152	74694	11	3°070	16°936
74399	10	22°346	3°557	74473	14	13°063	6°591	74547	13	14°537	9°877	74621	12	4°692	13°939	74695	19	3°735	16°520
74400	11	22°871	3°621	74474	13	14°460	6°717	74548	21	16°727	9°582	74622	14	4°977	13°215	74696*	22	3°896	16°057
74401	22	24°545	3°230	74475	15	14°858	6°391	74549	14	22°070	9°519	74623	12	5°723	13°440	74697	12	4°230	16°711
74402	23	25°708	3°492	74476	10	18°144	6°460	74550	10	22°221	9°957	74624	14	5°964	13°112	74698	10	5°105	16°485
74403	28	0°543	4°949	74477	12	20°980	6°657	74551	11	22°627	9°744	74625	12	6°475	13°763	74699	10	7°021	16°977
74404	20	3°423	4°301	74478	17	21°664	6°260	74552	10	24°308	9°035	74626	12	7°544	13°440	74700	13	7°280	16°776
74405	18	3°528	4°382	74479	10	23°559	6°276	74553	12	24°894	9°712	74627	12	7°995	13°570	74701	10	8°580	16°550
74406	24	3°738	4°087	74480	14	24°320	6°734	74554	28	0°028	10°287	74628	12	9°162	13°317	74702	12	9°182	16°170
74407	23	4°111	4°729	74481	12	24°699	6°854	74555	12	2°826	10°118	74629*	41	9°247	13°717	74703	14	9°543	16°277
74408	13	5°096	4°564	74482	10	24°858	6°561	74556	9	7°311	10°814	74630	15	10°505	13°980	74704	18	9°728	16°390
74409	13	6°274	4°720	74483	17	0°966	7°620	74557	13	7°762	10°160	74631	13	11°744	13°359	74705	14	10°092	16°561
74410	9	6°554	4°511	74484*	40	1°233	7°462	74558	11	8°383	10°881	74632	15	13°475	13°864	74706*	22	11°642	16°380
74411	10	7°661	4°711	74485	18	1°404	7°717	74559	12	10°281	10°612	74633	17	13°916	13°300	74707	11	14°127	16°319
74412	10	10°022	4°904	74486	16	3°649	7°224	74560	13	10°897	10°204	74634	23	16°855	13°891	74708	15	14°195	16°205
74413	12	10°569	4°203	74487	15	4°653	7°740	74561	18	12°030	10°407	74635	17	17°984	13°085	74709	18	14°292	16°243
74414	19	12°623	4°265	74488	20	5°205	7°875	74562	17	13°026	10°638	74636	14	18°116	13°103	74710	10	20°569	16°896
74415	9	16°045	4°130	74489	14	6°247	7°450	74563	18	13°978	10°940	74637	21	18°339	13°475	74711*	20	20°572	16°608
74416	12	17°670	4°870	74490	15	6°664	7°887	74564	17	14°124	10°660	74638	16	20°477	13°999	74712	12	21°206	16°811
74417	10	18°065	4°597	74491	12	6°761	7°996	74565	15	15°049	10°545	74639	13	21°380	13°073	74713	11	21°338	16°793
74418	17	18°508	4°698	74492	21	9°443	7°325	74566	25	16°060	10°397	74640	12	22°583	13°441	74714	12	21°800	16°465
74419	24	19°248	4°632	74493*	33	10°282	7°120	74567	13	16°701	10°953	74641	14	23°009	13°012	74715	12	23°058	16°592
74420	10	21°476	4°364	74494	15	11°161	7°787	74568	23	18°193	10°084	74642	10	24°780	13°856	74716	12	23°295	16°456
74421	10	21°688	4°501	74495	12	11°245	7°648	74569	13	21°978	10°878	74643*	22	25°926	13°131	74717	11	23°359	16°231
74422	14	21°836	4°799	74496	16	12°277	7°805	74570	13	22°143	10°916	74644	18	0°390	14°936	74718	20	23°878	16°093
74423	10	22°594	4°363	74497	18	12°417	7°440	74571	13	23°507	10°596	74645	16	1°132	14°416	74719	10	25°751	16°725
74424	12	22°660	4°474	74498	15	12°579	7°407	74572	20	0°290	11°994	74646	17	1°369	14°652	74720	17	0°214	17°143
74425	13	23°942	4°556	74499	15	13°813	7°395	74573	18	3°551	11°961	74647	26	2°361	14°487	74721	24	0°744	17°783
74426	10	24°268	4°152	74500	18	14°530	7°523	74574	12	3°826	11°623	74648	12	3°789	14°652	74722	18	1°523	17°447
74427	16	24°757	4°213	74501	17	15°504	7°495	74575	13	4°269	11°406	74649	13	4°221	14°567	74723	20	1°715	17°278
74428	14	24°997	4°966	74502	10	20°320	7°169	74576	13	4°575	11°303	74650	11	4°767	14°526	74724	13	3°431	17°937
74429	25	1°264	5°662	74503	19	20°439	7°638	74577	12	4°662	11°356	74651	11	5°304	14°395	74725	20	4°384	17°603
74430	13	1°286	5°513	74504	21	23°104	7°186	74578	12	5°558	11°024	74652	10	7°452	14°600	74726	18	4°791	17°432
74431	10	3°103	5°253	74505	20	25°533	7°673	74579	12	6°116	11°364	74653	12	7°461	14°623	74727	15	5°261	17°418
74432	19	4°020	5°625	74506	11	25°612	7°460	74580	12	7°348	11°197	74654	21	9°540	14°827	74728	10	5°510	17°917
74433	17	4°898	5°836	74507	12	25°871	7°494	74581	11	8°387	11°469	74655*	28	10°973	14°191	74729*	17	5°630	17°126
74434	15	5°269	5°940	74508	27	0°312	8°240	74582	14	9°128	11°929	74656	15	11°746	14°074	74730	10	7°812	17°856
74435	12	5°905	5°445	74509	22	1°848	8°741	74583	15	9°282	11°584	74657	19	12°126	14°981	74731	10	8°906	17°794
74436	12	7°071	5°343	74510	20	2°155	8°230	74584*	26	12°099	11°544	74658	20	16°747	14°963	74732	19	9°640	17°093
74437	17	7°270	5°539	74511	13	2°278	8°382	74585	21	13°531	11°858	74659*	60	16°785	14°403	74733	12	11°462	17°501
74438	11	8°508	5°962	74512	23	3°086	8°620	74586	22	14°486	11°883	74660*	51	17°978	14°145	74734	10	11°616	17°889
74439	21	9°269	5°211	74513	27	3°184	8°197	74587	14	19°323	11°720	74661	11	19°679	14°272	74735	13	12°399	17°203
74440	12	9°285	5°463	74514	11	5°513	8°368	74588	21	21°322	11°610	74662	19	20°310	14°098	74736	11	13°840	17°045
74441	13	9°892	5°424	74515	13	6°288	8°850	74589	11	21°772	11°276	74663	19	21°283	14°224	74737	12	15°180	17°300
74442	17	10°635	5°209	74516	14	7°301	8°041	74590*	22	23°159	11°153	74664	10	22°183	14°294	74738	11	15°458	17°318
74443	12	12°343	5°698	74517	10	7°576	8°163	74591	16	23°774	11°532	74665	20	23°251	14°469	74739	12	15°645	17°592
74444	11	12°625	5°193	74518	15	7°965	8°796	74592	12	24°263	11°701								

74752	29	1°279	18°028	74826	11	10°266	20°304	74900	25	0°458	23°883	74974	12	15°385	25°508	75044	10	5°820	3°730
74753	27	1°656	18°821	74827	10	10°438	20°517	74901	15	5°568	23°748	74975	12	18°281	25°512	75045	11	7°486	3°428
74754	15	2°558	18°454	74828	13	11°100	20°742	74902	14	6°382	23°294	74976	14	18°866	25°665	75046	14	10°310	3°365
74755	13	5°256	18°501	74829	12	11°374	20°483	74903	20	6°699	23°428	74977	17	19°707	25°693	75047*	27	10°883	3°650
74756	12	5°736	18°727	74830	10	13°630	20°272	74904	13	8°137	23°386	74978	12	21°541	25°735	75048	9	11°440	3°012
74757	10	7°079	18°425	74831	12	15°427	20°783	74905*	21	10°172	23°077	74979	21	22°602	25°574	75049	12	13°283	3°653
74758	11	8°570	18°145	74832	13	16°364	20°210	74906	11	10°616	23°950	74980	13	24°215	25°437	75050	13	14°368	3°080
74759	15	9°581	18°630	74833	13	17°681	20°254	74907	11	11°466	23°866	74981*	40	25°129	25°515	75051	9	15°391	3°460
74760	12	11°129	18°540	74834	13	23°600	20°181	74908	14	12°819	23°003					75052	21	25°806	3°318
74761	11	11°135	18°193	74835	26	1°962	21°790	74909	10	12°822	23°130					75053	20	2°763	4°291
74762	10	11°834	18°100	74836	15	2°143	21°503	74910	20	13°171	23°644					75054	12	4°100	4°393
74763*	15	12°801	18°876	74837	17	3°659	21°644	74911	11	14°279	23°430					75055	10	9°022	4°359
74764	11	14°626	18°727	74838	15	4°438	21°621	74912	10	14°381	23°505					75056	12	9°747	4°570
74765*	25	14°944	18°827	74839	10	6°617	21°278	74913	13	14°807	23°726					75057	9	11°334	4°193
74766	17	15°663	18°237	74840	10	7°265	21°274	74914	10	15°536	23°275					75058	10	12°249	4°433
74767	13	15°794	18°736	74841	10	8°441	21°147	74915	18	15°745	23°020					75059	9	13°049	4°670
74768	12	15°838	18°735	74842	12	9°395	21°716	74916	11	15°774	23°678					75060*	23	13°294	4°921
74769*	29	17°703	18°620	74843	10	10°119	21°171	74917	12	16°310	23°360					75061	12	13°820	4°769
74770	22	18°366	18°350	74844	21	10°599	21°640	74918	10	16°459	23°420					75062	8	14°862	4°950
74771	19	18°525	18°517	74845	16	11°051	21°481	74919*	29	16°660	23°056					75063	11	15°659	4°724
74772	18	20°385	18°943	74846	10	11°827	21°490	74920	10	17°792	23°602					75064	18	17°214	4°731
74773	11	20°566	18°178	74847	14	12°111	21°588	74921	12	18°863	23°704					75065	12	18°794	4°446
74774	22	21°193	18°768	74848	22	14°359	21°396	74922*	22	19°971	23°382					75066	20	3°020	5°037
74775	13	21°208	18°150	74849	10	14°909	21°329	74923	17	20°471	23°464					75067	16	4°134	5°036
74776	12	21°569	18°329	74850	11	17°029	21°221	74924	12	20°478	23°603					75068	14	4°443	5°057
74777	12	21°668	18°345	74851	13	18°214	21°046	74925	10	20°864	23°807					75069	12	12°309	5°214
74778	10	22°714	18°666	74852	14	18°395	21°766	74926	15	21°739	23°960					75070*	13	13°340	5°560
74779	12	24°409	18°955	74853	13	18°396	21°255	74927	20	22°061	23°522					75071	11	15°729	5°350
74780	10	24°884	18°232	74854	18	19°470	21°430	74928*	24	22°474	23°221					75072	10	18°241	5°275
74781*	28	1°179	19°497	74855	11	19°489	21°464	74929	18	23°440	23°861					75073	10	22°270	5°363
74782	14	3°572	19°493	74856	12	19°890	21°491	74930	15	23°665	23°360					75074	10	22°860	5°329
74783	11	5°209	19°084	74857	11	20°872	21°359	74931	17	24°315	23°513					75075	22	23°390	5°966
74784	20	5°765	19°826	74858	12	22°111	21°420	74932	28	1°651	24°766					75076	15	2°381	6°820
74785	14	6°847	19°859	74859	22	22°838	21°473	74933	26	2°230	24°732					75077	14	4°058	6°369
74786	12	8°526	19°619	74860	12	23°315	21°404	74934	25	2°425	24°356					75078	13	4°375	6°950
74787	13	9°811	19°063	74861	12	23°319	21°404	74935	22	4°501	24°549					75079	8	5°903	6°518
74788*	21	10°297	19°795	74862	10	23°404	21°487	74936	10	8°962	24°207					75080	13	10°364	6°023
74789*	21	10°381	19°097	74863	15	23°560	21°750	74937	13	9°639	24°213					75081	9	10°428	6°361
74790	11	10°744	19°851	74864	15	24°078	21°289	74938	13	11°481	24°772					75082	10	12°735	6°980
74791	12	11°819	19°193	74865	14	24°427	21°752	74939	16	12°117	24°526					75083	11	15°440	6°718
74792	12	11°864	19°104	74866	28	0°390	22°596	74940	10	12°287	24°674					75084	12	16°283	6°586
74793	12	13°342	19°567	74867	18	5°243	22°308	74941	11	12°536	24°692					75085	11	22°080	6°537
74794	12	13°357	19°630	74868	19	5°571	22°820	74942	10	12°539	24°876					75086	13	25°048	6°291
74795	14	15°109	19°479	74869	11	7°034	22°220	74943	11	13°078	24°431					75087	22	1°174	7°300
74796	12	15°874	19°676	74870	14	7°560	22°698	74944	10	13°224	24°488					75088	16	3°615	7°734
74797	13	18°321	19°004	74871	9	7°560	22°562	74945	15	13°953	24°190					75089	10	5°931	7°778
74798	14	18°470	19°803	74872	19	7°731	22°248	74946	15	14°242	24°510					75090*	19	7°521	7°610
74799	12	18°506	19°821	74873*	22	8°028	22°000	74947	10	14°511	24°741					75091	9	9°158	7°078
74800	10	19°896	19°253	74874	13	8°708	22°672	74948	10	18°855	24°764					75092	13	13°871	7°030
74801	13	19°987	19°325	74875	11	8°945	22°042	74949	14	19°058	24°183					75093	14	14°884	7°343
74802	10	20°050	19°670	74876*	21	9°574	22°262	74950	11	19°184	24°048					75094	14	17°473	7°191
74803	17	20°199	19°889	74877	13	10°238	22°044	74951	12	20°181	24°939					75095	11	19°652	7°926
74804	11	20°377	19°017	74878	10	10°748	22°285	74952	10	20°835	24°708					75096	13	20°429	7°167
74805	10	20°692	19°717	74879*	22	10°754	22°434	74953	10	22°489	24°595					75097*	26	21°061	7°791
74806	11	22°631	19°454	74880	11	10°788	22°018	74954	15	23°303	24°715					75098	10	21°327	7°332
74807	21	24°190	19°950	74881	11	11°560	22°750	74955	17	23°556	24°045					75099	13	25°786	7°676
74808	12	25°044	19°992	74882	12	12°426	22°024	74956	13	23°760	24°932					75100	11	11°378	8°766
74809	11	25°837	19°136	74883*	29	12°589	22°953	74957	18	24°753	24°112					75101*	32	13°091	8°047
74810*	27	25°864	19°131	74884*	19	13°141	22°442	74958	22	24°784	24°261					75102	9	19°182	8°255
74811*	37	1°753	20°899	74885	11	13°416	22°878	74959	21	25°013	24°936					75103	11	20°091	8°051
74812	19	2°657	20°074	74886	12	13°511	22°114	74960	22	25°616	24°193					75104	14	21°151	8°283
74813	18	2°935	20°900	74887	10	13°940	22°579	74961	30	1°830	25°082					75105	10	25°638	8°732
74814	13	4°756	20°883	74888	10	16°862	22°404	74962	27	1°847	25°535					75106	16	0°192	9°653
74815	15	4°790	20°218	74889	14	17°696	22°810	74963	16	8°062	25°252					75107	10	4°843	9°583
74816	18	4°793	20°620	74890	13	17°871	22°743	74964	13	9°231	25°156					75108	8	6°509	9°637
74817	11	5°008	20°971	74891	14	18°104	22°402	74965	14	9°329	25°294					75109	14	7°455	9°389
74818	13	6°180	20°349	74892	13	19°356	22°145	74966	13	9°436	25°614					75110	13	8°455	9°126
74819	12	6°221	20°977	74893	14	20°469	22°095	74967*	22	10°122	25°326					75111	12	10°731	9°185
74820	12	7°873	20°371	74894	12	20°480	22°079	74968	12	10°151									

75118	11	19°665	10°243	75192	14	21°088	16°265	75266	17	3°060	22°481	75457	10	15°270	2°586
75119	23	20°399	10°851	75193	14	23°527	16°893	75267	15	5°365	22°805	75458	13	19°569	2°455
75120	19	20°686	10°927	75194	9	24°593	16°418	75268	12	5°952	22°519	75459	9	20°723	2°019
75121*	26	24°845	10°544	75195	11	25°205	16°591	75269	10	6°186	22°397	75460	10	20°761	2°176
75122	12	0°132	11°017	75196	13	3°517	17°784	75270	9	6°398	22°191	75461*	25	21°185	2°577
75123	13	0°299	11°049	75197*	19	4°418	17°291	75271	11	8°513	22°696	75462*	20	21°291	2°462
75124*	30	1°319	11°264	75198	10	6°984	17°886	75272	9	8°824	22°414	75463	9	22°756	2°218
75125	20	1°940	11°629	75199	9	9°511	17°367	75273	11	9°225	22°950	75464	15	23°750	2°635
75126	10	8°184	11°658	75200	13	10°780	17°678	75274	9	9°442	22°397	75465	11	23°985	2°499
75127	15	8°426	11°255	75201	11	10°789	17°538	75275	11	9°589	22°053	75466	9	0°962	3°747
75128	16	14°614	11°090	75202	13	11°018	17°093	75276	19	9°861	22°822	75467	22	3°706	3°288
75129*	21	16°400	11°533	75203	9	12°202	17°443	75277	20	10°520	22°308	75468	10	4°472	3°267
75130*	16	19°749	11°862	75204	14	14°357	17°039	75278	10	11°350	22°888	75469	10	4°594	3°760
75131*	17	19°755	11°882	75205	11	16°500	17°330	75279	21	11°436	22°815	75470	10	5°034	3°440
75132	10	22°839	11°891	75206	13	25°192	17°819	75280	10	14°933	22°173	75471	9	6°278	3°130
75133	15	1°010	12°745	75207	14	3°958	18°054	75281	10	16°650	22°265	75472	10	9°043	3°062
75134	14	2°019	12°737	75208	12	5°410	18°698	75282	10	17°362	22°296	75473	20	9°090	3°394
75135	16	2°955	12°347	75209	12	5°948	18°840	75283	11	17°423	22°000	75474	9	9°497	3°297
75136	14	3°211	12°159	75210*	23	6°624	18°177	75284	10	17°632	22°349	75475	10	11°853	3°104
75137	10	4°936	12°162	75211	11	6°896	18°842	75285	15	18°311	22°604	75476	9	12°121	3°159
75138	9	5°649	12°206	75212	8	8°075	18°611	75286	13	19°101	22°087	75477	19	12°610	3°215
75139	11	6°932	12°942	75213	10	8°367	18°502	75287	13	21°680	22°128	75478	10	12°678	3°390
75140	13	8°630	12°249	75214	11	9°650	18°589	75288	14	24°739	22°986	75479	22	13°797	3°707
75141	12	8°913	12°473	75215	20	9°941	18°890	75289	30	0°493	23°658	75480	8	14°126	3°781
75142*	32	17°201	12°409	75216	11	11°198	18°298	75290*	43	0°904	23°344	75481	9	14°330	3°636
75143*	23	19°840	12°070	75217	16	11°469	18°082	75291	11	6°053	23°832	75482	10	14°775	3°877
75144	10	20°115	12°379	75218*	75	14°315	18°473	75292	10	9°319	23°220	75483	19	14°815	3°306
75145	9	24°857	12°369	75219	9	16°575	18°044	75293	9	12°350	23°255	75484	9	14°868	3°236
75146	14	0°796	13°561	75220	9	17°757	18°439	75294	10	15°119	23°198	75485	8	15°270	3°090
75147	15	1°208	13°128	75221*	18	20°584	18°065	75295	11	16°145	23°934	75486	10	15°389	3°493
75148*	19	4°127	13°181	75222*	30	20°764	18°525	75296	10	21°341	23°951	75487	16	16°933	3°324
75149	12	4°213	13°120	75223	16	22°345	18°884	75297	9	21°699	23°160	75488	12	17°137	3°571
75150	10	7°426	13°272	75224	9	22°916	18°773	75298*	31	23°214	23°793	75489	11	17°525	3°385
75151	13	7°589	13°676	75225	10	23°967	18°004	75299	13	23°729	23°856	75490	9	18°336	3°119
75152*	22	11°567	13°649	75226	11	24°049	18°505	75300	14	23°776	23°914	75491	11	19°903	3°871
75153	16	13°969	13°833	75227	12	4°175	19°186	75301	13	3°234	24°333	75492	12	22°062	3°529
75154	9	21°796	13°209	75228*	24	4°199	19°181	75302	18	4°068	24°244	75493	23	22°168	3°509
75155	10	22°489	13°480	75229*	18	6°035	19°370	75303	22	5°620	24°532	75494	17	25°303	3°387
75156	10	22°940	13°148	75230	8	8°081	19°229	75304	11	14°172	24°718	75495	10	3°873	4°472
75157	9	24°657	13°499	75231	12	12°479	19°499	75305	12	19°331	24°095	75496*	35	5°311	4°245
75158	20	1°485	14°576	75232	13	17°412	19°765	75306	16	20°930	24°007	75497	11	6°655	4°584
75159	12	3°945	14°059	75233	14	17°431	19°766	75307*	31	21°884	24°186	75498	9	13°243	4°746
75160	12	4°148	14°300	75234	10	20°245	19°932	75308*	20	22°310	24°230	75499	9	13°893	4°003
75161	9	4°386	14°838	75235	13	21°580	19°820	75309*	30	23°138	24°707	75500	10	14°141	4°042
75162*	34	6°560	14°609	75236	12	21°620	19°249	75310	38	1°080	25°695	75501*	29	17°665	4°304
75163	11	10°624	14°514	75237	9	23°079	19°993	75311*	42	3°601	25°579	75502	13	18°350	4°192
75164	10	11°255	14°487	75238	11	24°273	19°980	75312	17	5°221	25°423	75503	10	19°377	4°803
75165*	34	16°241	14°898	75239	9	24°287	19°926	75313	23	5°340	25°772	75504	10	19°922	4°188
75166	13	22°013	14°796	75240	11	24°514	19°085	75314	12	7°179	25°054	75505	9	22°145	4°405
75167	14	22°226	14°619	75241	21	2°544	20°037	75315	14	7°656	25°596	75506	11	22°308	4°102
75168	16	22°621	14°120	75242	11	5°944	20°554	75316	16	11°463	25°312	75507	9	24°573	4°205
75169	14	23°576	14°378	75243	9	7°859	20°713	75317	12	11°909	25°532	75508	11	0°219	5°901
75170	13	3°440	15°421	75244	12	11°811	20°509	75318	10	14°207	25°793	75509	9	0°345	5°543
75171	10	6°423	15°942	75245*	14	13°480	20°009	75319	10	18°808	25°232	75510	10	0°795	5°356
75172	11	9°628	15°563	75246	9	15°512	20°175	75320	9	18°883	25°436	75511	35	1°340	5°983
75173	16	10°639	15°513	75247	10	21°011	20°322	75321	13	20°000	25°297	75512	11	4°939	5°817
75174	13	12°447	15°049	75248	9	21°408	20°442	75322	14	20°616	25°010	75513	9	5°025	5°749
75175	15	12°983	15°134	75249	11	22°500	20°695	75323	13	21°305	25°969	75514	16	8°473	5°007
75176	20	14°361	15°921	75250	12	24°177	20°532	75324	14	23°426	25°686	75515	8	10°002	5°653
75177	13	20°164	15°526	75251	33	1°227	21°589					75516	10	11°622	5°152
75178	13	21°843	15°410	75252	13	4°910	21°765					75517	10	11°772	5°520
75179	14	22°218	15°739	75253	11	6°019	21°372					75518	10	11°844	5°271
75180	13	1°572	16°559	75254	12	7°916	21°130					75519	11	12°486	5°040
75181	21	2°149	16°188	75255	10	10°150	21°826					75520	9	12°689	5°370
75182*	43	3°103	16°020	75256	13	10°331	21°919					75521	10	13°821	5°622
75183	12	3°975	16°029	75257	11	10°618	21°195					75522	9	13°821	5°582
75184	11	5°261	16°110	75258	10	12°797	21°081					75523	10	14°273	5°994
75185	14	6°290	16°313	75259	9	15°700	21°978					75524	9	14°288	5°732
75186	11	9°650	16°662	75260	10	15°904	21°927					75525	22	14°880	5°279
75187	10	10°113	16°596	75261	9	16°020	21°708					75526	15	15°069	5°849
75188*	21	14°800	16°480	75262	10	17°896	21°527					75527	14	15°331	5°282
75189	14	17°120	16°041	75263	9	22°849	21°201					75528	10	15°662	5°100
75190	20	18°994	16°386	75264*	21	23°701	21°947					75529	10	16°828	5°857
75191	15	19°361	16°380	75265	30	0°969	22°354					75530	10	17°756	5°469

R. A. 21^h 56^m

Plate 1210; 1898 Sept. 26.

Provisional Constants.

A B C
 -00019 +00798 -3565

D E F
 -00817 -00033 +0175

Mag. = 15.8 - 1.25√d

No.	d	x	y
75401	10	1°478	0°834
75402	10	2°651	0°994
75403	10	5°718	0°808
75404	9	7°452	0°750
75405	20	7°685	0°642
75406	9	9°082	0°802
75407	10	12°608	0°509
75408	11	12°654	0°627
75409	13	12°880	0°437
75410	12	14°186	0°450
75411	8	14°939	0

75531	9	18°219	5°199	75605	9	3°844	8°857	75679	12	5°725	10°465	75753	5	7°669	12°147	75827*	28	13°851	14°402
75532	10	20°139	5°973	75606	10	4°047	8°414	75680	14	7°147	10°060	75754	5	9°135	12°495	75828	11	14°202	14°749
75533	9	20°180	5°714	75607	6	4°714	8°910	75681	6	8°223	10°904	75755	7	10°069	12°402	75829	6	15°682	14°649
75534	14	22°345	5°125	75608	13	5°681	8°893	75682	10	8°535	10°241	75756	8	11°430	12°327	75830	7	15°773	14°846
75535	10	23°812	5°599	75609	9	6°121	8°527	75683	16	10°692	10°393	75757	13	12°218	12°016	75831	8	16°647	14°541
75536	10	24°284	5°604	75610	7	6°474	8°384	75684*	31	10°884	10°830	75758	10	12°547	12°082	75832	7	16°829	14°532
75537	10	25°469	5°719	75611	20	6°563	8°142	75685	12	11°453	10°356	75759	6	12°822	12°642	75833	11	18°965	14°290
75538	16	0°039	6°578	75612	12	6°598	8°218	75686	7	12°339	10°627	75760	7	13°250	12°953	75834	10	20°648	14°814
75539	9	0°527	6°908	75613	7	6°875	8°762	75687	6	15°717	10°918	75761	5	13°954	12°903	75835	7	20°687	14°649
75540	11	3°006	6°274	75614	10	8°090	8°327	75688	13	16°151	10°883	75762	19	15°365	12°325	75836	8	21°219	14°720
75541	15	3°299	6°747	75615	6	9°439	8°202	75689	6	16°631	10°394	75763	10	15°713	12°327	75837	5	21°739	14°229
75542	10	4°051	6°767	75616	11	9°597	8°139	75690	27	17°025	10°343	75764	7	15°845	12°104	75838	12	21°996	14°628
75543	11	4°715	6°655	75617	10	9°756	8°194	75691	5	17°263	10°227	75765	14	17°827	12°775	75839	7	23°306	14°637
75544	23	5°305	6°119	75618	7	10°036	8°683	75692	19	17°692	10°993	75766	14	18°086	12°809	75840*	49	23°477	14°947
75545	9	6°699	6°172	75619	11	10°964	8°298	75693	11	18°171	10°694	75767	18	18°943	12°843	75841*	36	25°203	14°966
75546	14	7°301	6°812	75620	12	11°509	8°997	75694	6	19°194	10°453	75768	13	19°121	12°172	75842	29	0°363	15°775
75547	9	7°474	6°389	75621	11	12°618	8°417	75695	6	19°202	10°030	75769	11	19°488	12°478	75843	9	1°107	15°999
75548	9	8°279	6°037	75622	12	12°887	8°403	75696	12	19°206	10°702	75770	10	20°015	12°944	75844	6	1°295	15°185
75549	10	8°280	6°797	75623	11	13°383	8°107	75697	13	21°268	10°355	75771	11	20°059	12°585	75845	8	4°601	15°594
75550	10	8°644	6°468	75624	11	13°864	8°647	75698	5	22°357	10°076	75772	6	20°586	12°639	75846	10	5°313	15°424
75551	11	8°958	6°750	75625	7	13°898	8°234	75699	7	22°771	10°320	75773	9	22°218	12°731	75847	9	6°034	15°132
75552	9	9°202	6°515	75626	6	14°788	8°453	75700	11	23°390	10°688	75774	7	23°645	12°325	75848	11	7°407	15°036
75553	10	10°622	6°378	75627	11	15°263	8°127	75701	7	25°111	10°797	75775	9	24°135	12°228	75849*	21	7°705	15°447
75554	9	11°077	6°663	75628	5	16°337	8°969	75702	7	25°491	10°965	75776	6	24°518	12°816	75850	6	8°505	15°360
75555	11	11°594	6°353	75629	11	17°148	8°888	75703	13	0°906	11°917	75777	13	25°344	12°505	75851	5	8°608	15°229
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75557	10	14°123	6°172	75631	12	19°123	8°517	75705	5	6°674	11°703	75779	9	1°032	13°171	75853	10	11°336	15°022
75558	9	16°367	6°642	75632	9	19°182	8°451	75706	12	6°872	11°467	75780	6	1°306	13°205	75854	7	11°660	15°133
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75560	10	16°548	6°379	75634	9	20°595	8°389	75708	7	7°956	11°724	75782	11	2°758	13°487	75856*	23	12°042	15°404
75561	9	17°287	6°279	75635	7	22°804	8°183	75709	8	8°306	11°274	75783	11	2°830	13°081	75857	6	13°413	15°066
75562	9	19°139	6°702	75636	8	23°082	8°434	75710	10	8°415	11°443	75784	7	4°203	13°373	75858	7	13°637	15°899
75563	19	19°647	6°742	75637	10	0°151	9°637	75711	12	9°291	11°775	75785	7	4°806	13°314	75859	10	18°638	15°718
75564	20	21°851	6°383	75638	7	0°482	9°498	75712	8	9°724	11°929	75786	7	5°134	13°107	75860*	19	20°700	15°923
75565	10	22°449	6°638	75639	8	1°642	9°654	75713	11	12°907	11°105	75787	5	5°687	13°646	75861	18	22°814	15°135
75566	11	22°628	6°110	75640	6	4°146	9°052	75714	7	13°236	11°861	75788	13	5°835	13°287	75862	7	23°710	15°696
75567	11	23°099	6°334	75641	6	6°661	9°204	75715	10	13°574	11°523	75789	12	7°432	13°096	75863	13	25°818	15°073
75568	12	23°127	6°904	75642	7	6°663	9°951	75716	5	13°775	11°778	75790	10	9°329	13°740	75864	7	1°169	16°966
75569	10	23°253	6°103	75643	12	7°486	9°502	75717	11	13°963	11°833	75791	11	9°825	13°333	75865	19	1°696	16°907
75570	11	23°678	6°263	75644	11	7°967	9°451	75718	5	14°104	11°368	75792	9	9°947	13°227	75866	5	2°228	16°769
75571	14	25°633	6°243	75645	9	9°480	9°802	75719	9	14°286	11°871	75793	14	13°169	13°549	75867	12	2°752	16°410
75572	6	0°518	7°177	75646	5	10°036	9°508	75720	9	15°557	11°317	75794	10	14°370	13°692	75868	5	3°010	16°449
75573	8	1°888	7°049	75647	6	10°370	9°534	75721	6	15°568	11°928	75795	18	16°783	13°204	75869	11	3°368	16°570
75574	13	3°771	7°643	75648	10	11°069	9°170	75722	6	15°754	11°881	75796	7	17°770	13°015	75870	10	3°802	16°633
75575	7	5°689	7°048	75649	13	11°410	9°706	75723	11	17°456	11°317	75797	7	18°479	13°787	75871	11	4°738	16°754
75576	12	6°113	7°432	75650	9	12°444	9°072	75724	9	18°189	11°979	75798	10	20°907	13°078	75872	7	5°646	16°444
75577	6	6°372	7°276	75651	9	12°824	9°166	75725	6	18°766	11°246	75799	6	21°499	13°160	75873	8	6°455	16°718
75578	7	6°610	7°533	75652	9	13°905	9°956	75726	13	19°917	11°782	75800	13	21°639	13°676	75874	8	6°650	16°439
75579	11	8°867	7°282	75653	7	14°407	9°763	75727	9	20°082	11°440	75801	6	23°179	13°673	75875	12	7°806	16°517
75580	7	9°440	7°361	75654	13	14°979	9°338	75728	15	20°558	11°403	75802	20	24°583	13°452	75876	5	9°221	16°026
75581	20	10°204	7°861	75655	6	15°172	9°230	75729	10	20°600	11°637	75803	6	24°925	13°104	75877	11	11°253	16°617
75582	12	11°399	7°698	75656	10	15°916	9°996	75730	10	21°961	11°119	75804	10	25°714	13°583	75878	10	11°615	16°073
75583	6	12°150	7°457	75657	7	16°053	9°136	75731	7	22°033	11°345	75805	5	25°852	13°777	75879	6	13°588	16°372
75584	19	12°645	7°542	75658	5	16°107	9°066	75732	11	24°038	11°693	75806	12	0°136	14°837	75880	11	13°765	16°896
75585	10	13°175	7°409	75659	6	17°049	9°191	75733	7	24°135	11°940	75807	21	0°349	14°657	75881	6	13°984	16°794
75586	7	13°706	7°981	75660	7	17°134	9°628	75734	10	24°238	11°565	75808	26	0°735	14°151	75882	10	15°085	16°873
75587	14	14°175	7°290	75661	9	17°150	9°772	75735	7	24°285	11°591	75809	7	1°287	14°036	75883	7	15°326	16°083
75588	7	14°333	7°386	75662	8	17°188	9°459	75736	6	25°317	11°538	75810	24	1°694	14°388	75884	13	17°534	16°879
75589*	24	15°714	7°822	75663	7	18°046	9°904	75737	8	0°116	12°423	75811	13	4°296	14°606	75885	7	18°360	16°726
75590	12	16°738	7°792	75664	16	18°087	9°926	75738	7	2°249	12°826	75812	11	4°423	14°620	75886	10	18°522	16°804
75591	9	17°031	7°577	75665	7	18°167	9°709	75739	12	2°934	12°353	75813	6	5°332	14°929	75887	11	19°180	16°803
75592	7	17°053	7°039	75666	9	18°613	9°424	75740	5	3°231	12°730	75814	10	5°432	14°244	75888	10	19°694	16°094
75593	5	17°363	7°043	75667	6	18°613	9°606	75741	7	4°080	12°134	75815	6	6°109	14°522	75889	7	20°169	16°456
75594	12	19°681	7°8																

75901	5	25°142	16°772	75975	20	16°416	19°782	76049	7	22°616	21°657	76123	7	22°540	24°886	76228	16	16°341	1°718
75902	7	1°256	17°408	75976	6	18°598	19°630	76050	8	24°524	21°086	76124	10	23°970	24°522	76229	15	16°371	1°272
75903	19	3°380	17°797	75977	13	19°063	19°839	76051	13	3°027	22°975	76125	8	24°233	24°311	76230	21	17°101	1°406
75904	6	4°043	17°555	75978	11	20°096	19°221	76052	11	4°338	22°935	76126	12	24°614	24°787	76231	12	17°760	1°709
75905	14	4°329	17°645	75979	13	20°137	19°939	76053	11	4°699	22°566	76127	8	25°035	24°683	76232	15	18°397	1°572
75906	6	4°652	17°326	75980	11	20°404	19°624	76054	6	5°932	22°616	76128	9	1°770	25°702	76233	13	18°562	1°481
75907	8	5°111	17°045	75981*	28	21°039	19°996	76055	10	6°584	22°536	76129	19	4°604	25°913	76234	14	18°971	1°051
75908	7	5°786	17°393	75982	8	22°148	19°097	76056	6	6°619	22°150	76130	12	5°113	25°382	76235*	39	19°224	1°073
75909	11	6°672	17°246	75983	7	23°763	19°488	76057	11	7°275	22°927	76131*	28	6°124	25°730	76236	17	20°723	1°280
75910	7	8°893	17°975	75984	16	0°745	20°727	76058	12	8°027	22°844	76132	8	7°046	25°748	76237	22	25°936	1°653
75911	6	9°052	17°237	75985	8	1°436	20°645	76059	7	9°026	22°958	76133	10	7°138	25°604	76238	26	2°123	2°964
75912	5	9°137	17°618	75986	18	2°419	20°532	76060	9	9°647	22°610	76134	10	9°842	25°391	76239	19	2°364	2°826
75913	5	9°831	17°423	75987	9	5°471	20°379	76061	15	10°336	22°093	76135	10	10°244	25°797	76240	14	4°676	2°783
75914	10	10°700	17°532	75988	9	5°712	20°862	76062	11	14°149	22°437	76136	9	11°262	25°904	76241	21	5°699	2°176
75915	6	11°507	17°381	75989	7	6°085	20°618	76063	8	15°239	22°781	76137	5	12°800	25°816	76242	20	8°225	2°048
75916	10	12°582	17°674	75990	10	6°973	20°691	76064	11	15°481	22°613	76138	10	13°316	25°528	76243	19	10°385	2°844
75917	6	13°491	17°790	75991	10	7°320	20°821	76065	10	16°619	22°837	76139	7	13°435	25°562	76244	13	12°361	2°729
75918	8	13°933	17°035	75992	13	7°606	20°089	76066	7	17°333	22°797	76140	7	13°547	25°635	76245	16	12°639	2°083
75919	9	14°124	17°020	75993	13	9°384	20°878	76067	7	17°342	22°173	76141*	15	14°014	25°000	76246	12	12°933	2°959
75920	9	16°050	17°801	75994	6	9°779	20°121	76068	10	18°767	22°620	76142	7	14°963	25°452	76247	11	13°525	2°491
75921	6	16°295	17°674	75995	9	10°234	20°056	76069	10	19°146	22°774	76143	13	18°254	25°121	76248	13	14°606	2°061
75922	11	16°590	17°739	75996	6	10°643	20°632	76070	19	20°078	22°361	76144	22	19°094	25°993	76249	11	14°654	2°404
75923	6	17°804	17°150	75997	8	11°728	20°113	76071	14	21°301	22°817	76145	14	22°506	25°544	76250*	34	16°806	2°030
75924	10	18°169	17°427	75998	8	12°667	20°014	76072	12	21°763	22°463	76146	15	23°103	25°647	76251	18	21°848	2°904
75925	10	22°055	17°070	75999	7	13°304	20°165	76073*	19	22°233	22°714					76252	17	22°660	2°790
75926	7	22°409	17°184	76000	8	14°022	20°730	76074	7	0°942	23°897					76253	14	22°683	2°805
75927	11	22°584	17°590	76001	6	14°486	20°619	76075*	45	1°521	23°814					76254	20	22°710	2°401
75928	13	25°848	17°479	76002	18	14°543	20°090	76076	13	2°036	23°866					76255	16	22°923	2°936
75929	12	0°543	18°104	76003	6	15°396	20°078	76077	19	2°084	23°923					76256	16	23°661	2°591
75930	28	0°552	18°923	76004	7	17°071	20°297	76078	20	4°610	23°551					76257	18	25°133	2°879
75931	12	1°123	18°797	76005	12	17°907	20°030	76079	7	4°708	23°193					76258	27	0°444	3°870
75932	12	2°156	18°007	76006	7	18°257	20°063	76080	12	5°907	23°381					76259	39	0°553	3°910
75933	16	2°250	18°507	76007	7	18°658	20°887	76081	10	6°196	23°540					76260	22	3°681	3°702
75934	11	4°571	18°910	76008	6	21°181	20°292	76082	13	6°293	23°117					76261	13	4°477	3°549
75935	10	5°070	18°214	76009	10	21°214	20°817	76083	12	8°277	23°559					76262	14	4°936	3°252
75936	7	5°648	18°519	76010	7	21°377	20°413	76084	10	8°426	23°658					76263	15	5°033	3°114
75937	9	6°321	18°364	76011	11	21°675	20°274	76085	7	8°447	23°095					76264	16	5°337	3°700
75938	7	9°490	18°245	76012	11	21°709	20°428	76086	10	9°046	23°478					76265	13	9°850	3°753
75939	8	9°685	18°715	76013	10	22°083	20°251	76087	10	10°896	23°072					76266	17	10°031	3°110
75940	10	10°281	18°836	76014	20	22°242	20°518	76088	10	10°985	23°007					76267	17	10°109	3°224
75941	18	12°064	18°621	76015	9	23°483	20°037	76089	7	12°142	23°316					76268	15	10°836	3°686
75942	16	12°726	18°292	76016	20	23°792	20°961	76090	10	12°578	23°961					76269	22	12°148	3°334
75943	9	15°066	18°534	76017	5	23°794	20°273	76091	8	13°551	23°092					76270	10	13°590	3°880
75944	12	15°173	18°907	76018	10	24°168	20°342	76092	13	13°814	23°816					76271	12	14°199	3°216
75945	9	15°214	18°810	76019	9	24°266	20°607	76093	7	14°107	23°036					76272	14	14°516	3°404
75946	10	15°245	18°680	76020	10	25°118	20°570	76094	15	15°162	23°189					76273	13	15°237	3°113
75947	7	16°861	18°437	76021	8	25°267	20°619	76095	5	15°658	23°903					76274	16	15°699	3°302
75948	11	17°655	18°581	76022	11	25°830	20°037	76096	13	15°737	23°214					76275	17	17°460	3°850
75949	6	17°964	18°504	76023	8	1°104	21°226	76097*	41	15°936	23°634					76276	23	18°229	3°641
75950*	28	18°323	18°520	76024	6	1°667	21°139	76098	13	17°196	23°963					76277	24	19°246	3°851
75951	11	18°827	18°648	76025*	29	1°970	21°954	76099	10	17°655	23°856					76278	14	19°908	3°187
75952	15	20°374	18°546	76026	6	2°463	21°650	76100	10	20°601	23°339					76279	13	20°982	3°109
75953	9	21°247	18°560	76027	9	6°011	21°862	76101	10	20°837	23°130					76280	14	22°334	3°620
75954	9	21°958	18°180	76028	13	6°514	21°593	76102	8	24°586	23°248					76281	13	23°162	3°476
75955	12	22°216	18°578	76029	7	6°751	21°164	76103*	50	0°195	24°233					76282	16	23°168	3°866
75956	16	25°329	18°657	76030	10	6°940	21°173	76104*	24	0°624	24°267					76283	21	24°177	3°290
75957	10	1°307	19°923	76031	6	7°044	21°453	76105*	38	1°459	24°726					76284	20	0°694	4°442
75958	17	2°503	19°977	76032	12	7°250	21°926	76106	8	1°748	24°372					76285	20	4°747	4°136
75959	10	2°517	19°924	76033	10	8°350	21°481	76107	6	3°752	24°211					76286	22	4°800	4°167
75960	16	2°726	19°076	76034	19	8°751	21°612	76108	8	6°286	24°905					76287	14	6°171	4°420
75961	6	6°904	19°828	76035	13	9°932	21°734	76109	6	7°357	24°620					76288	13	8°307	4°080
75962	9	6°969	19°403	76036	7	10°709	21°029	76110	10	7°825	24°283					76289	27	8°794	4°354
75963*	27	7°286	19°376	76037*	25	11°117	21°046	76111	8	9°089	24°469					76290	24	9°740	4°760
75964	10	8°003	19°529	76038	9	11°319	21°077	76112	6	9°706	24°864					76291	12	9°770	4°471
75965	7	8°006	19°793	76039	6	11°638	21°268	76113	7	9°790	24°266					76292	14	10°401	4°291
75966	7	8°068	19°152	76040	8	11°653	21°543	76114*	29	10°522	24°385					76293	15	10°631	4°909
75967	6	9°590	19°910	76041	8	15°029	21°167	76115	10	11°794	24°346					76294	20	11°741	4°810
75968	11	10°156	19°319	76042	6	16°150	21°416	76116*	28	13°112	24°								

76302	26	0°743	5'468	76376	16	16°777	8°026	76450	10	18°170	11°063	76524	11	17°914	14°235	76598	13	21°757	17°493
76303	14	2°683	5°929	76377	22	17°070	8°460	76451	18	18°370	11°923	76525	14	18°972	14°621	76599	23	21°794	17°720
76304	13	5°626	5°022	76378	19	17°612	8°230	76452	13	22°283	11°709	76526	12	19°150	14°062	76600	14	23°090	17°396
76305	16	7°656	5°007	76379	13	18°440	8°101	76453	12	23°288	11°050	76527	11	21°553	14°479	76601	16	23°310	17°199
76306	16	9°701	5°163	76380	20	18°617	8°211	76454	20	24°873	11°966	76528*	22	21°867	14°229	76602	13	23°400	17°357
76307	12	9°964	5°212	76381	13	19°800	8°511	76455	14	24°914	11°841	76529	17	23°264	14°712	76603	17	24°578	17°249
76308	24	10°790	5°722	76382	17	20°168	8°355	76456	13	25°763	11°530	76530	14	24°281	14°996	76604	10	25°169	17°653
76309	13	13°529	5°174	76383	14	21°396	8°044	76457	12	2°105	12°656	76531	22	24°483	14°559	76605	13	25°233	17°071
76310	14	13°777	5°450	76384	13	22°570	8°813	76458	14	2°490	12°017	76532	22	1°298	15°469	76606	18	0°470	18°524
76311	12	14°248	5°564	76385	13	22°637	8°620	76459	13	2°589	12°261	76533*	70	1°959	15°275	76607	24	0°731	18°919
76312	14	15°088	5°851	76386	14	24°295	8°300	76460	12	2°592	12°551	76534*	38	3°684	15°278	76608	16	1°561	18°085
76313	17	15°729	5°167	76387	15	24°376	8°339	76461	17	3°805	12°819	76535	16	4°303	15°380	76609	22	3°844	18°969
76314	16	17°071	5°246	76388	14	24°907	8°250	76462	11	6°906	12°367	76536*	28	5°201	15°790	76610	17	5°190	18°943
76315	12	18°950	5°033	76389	11	25°549	8°656	76463	20	7°292	12°710	76537	11	6°530	15°001	76611	14	5°553	18°590
76316	13	19°242	5°381	76390	22	0°872	9°614	76464	18	7°511	12°201	76538	10	6°656	15°315	76612	17	5°878	18°806
76317	14	19°700	5°932	76391	13	5°712	9°001	76465	16	12°414	12°337	76539	15	7°516	15°887	76613	12	6°396	18°628
76318	10	20°381	5°973	76392	11	5°894	9°813	76466	15	15°641	12°894	76540	22	9°720	15°582	76614	17	6°654	18°769
76319	11	20°719	5°842	76393*	35	6°310	9°751	76467	20	15°930	12°587	76541	17	16°253	15°454	76615	11	7°370	18°391
76320	21	21°303	5°463	76394*	53	6°919	9°131	76468	13	16°390	12°837	76542	22	17°155	15°899	76616	11	8°646	18°386
76321	16	21°927	5°676	76395	15	7°750	9°543	76469	15	17°317	12°500	76543	21	19°025	15°050	76617	22	11°049	18°377
76322	13	24°452	5°471	76396*	31	8°454	9°019	76470	17	18°201	12°779	76544	16	19°200	15°419	76618	16	12°704	18°881
76323	11	24°551	5°619	76397	15	8°622	9°521	76471	13	19°461	12°942	76545	11	20°659	15°999	76619	18	13°950	18°912
76324	18	1°032	6°447	76398	16	9°380	9°640	76472	18	19°967	12°930	76546	10	20°668	15°020	76620	14	14°000	18°232
76325	18	1°511	6°666	76399	20	9°401	9°189	76473	14	20°599	12°141	76547	13	23°814	15°538	76621	22	15°297	18°973
76326	17	1°659	6°433	76400	22	10°431	9°407	76474	15	21°258	12°837	76548	12	23°919	15°622	76622	14	16°334	18°486
76327	18	2°090	6°592	76401	12	10°945	9°505	76475	17	22°890	12°953	76549	15	24°007	15°890	76623	17	16°403	18°349
76328	13	3°870	6°031	76402	17	12°428	9°094	76476	18	23°600	12°749	76550	12	24°379	15°629	76624	12	19°207	18°886
76329	18	4°039	6°554	76403	13	12°513	9°077	76477	14	23°943	12°340	76551	14	24°765	15°256	76625	14	20°680	18°668
76330	21	7°511	6°948	76404	21	14°971	9°717	76478*	22	24°336	12°936	76552	15	25°612	15°112	76626	11	21°912	18°345
76331	22	8°966	6°627	76405	15	15°389	9°670	76479	21	25°311	12°525	76553	26	0°478	16°540	76627	14	22°680	18°443
76332	11	11°288	6°046	76406	13	15°859	9°389	76480	22	3°054	13°770	76554	20	1°697	16°801	76628	19	24°039	18°754
76333	16	13°392	6°608	76407	14	16°230	9°978	76481	10	3°389	13°418	76555	15	2°201	16°023	76629	15	24°436	18°905
76334	16	15°916	6°277	76408	19	18°361	9°820	76482	13	3°787	13°313	76556	18	2°327	16°540	76630	14	24°545	18°707
76335	17	16°184	6°141	76409	14	19°446	9°120	76483	17	4°188	13°894	76557	18	2°553	16°350	76631	13	24°940	18°250
76336	14	21°111	6°787	76410	15	20°822	9°303	76484	22	4°553	13°630	76558	24	3°280	16°891	76632*	51	25°332	18°535
76337*	53	22°453	6°615	76411	15	21°680	9°611	76485	17	5°726	13°740	76559	15	4°713	16°047	76633	15	25°376	18°111
76338	18	23°483	6°531	76412	14	23°338	9°667	76486	16	8°599	13°129	76560	14	5°144	16°773	76634	14	25°481	18°645
76339	12	23°621	6°740	76413	17	23°449	9°220	76487	14	9°551	13°756	76561	13	6°831	16°662	76635	12	2°286	19°815
76340	29	1°386	7°440	76414	13	24°118	9°587	76488	15	10°107	13°761	76562	14	7°330	16°295	76636	14	5°719	19°148
76341	19	1°540	7°237	76415	14	24°925	9°702	76489	16	10°235	13°736	76563	10	8°201	16°483	76637	13	5°720	19°145
76342	21	1°599	7°496	76416	14	25°590	9°494	76490	14	11°854	13°193	76564	13	8°586	16°786	76638	18	6°769	19°850
76343	12	4°141	7°504	76417	17	2°186	10°665	76491*	73	12°063	13°787	76565	13	9°821	16°678	76639	15	7°505	19°688
76344	19	6°204	7°730	76418	14	3°842	10°272	76492	21	13°047	13°480	76566*	22	11°245	16°431	76640	22	10°411	19°336
76345	22	6°450	7°042	76419	19	4°588	10°674	76493	16	14°433	13°450	76567	11	11°539	16°181	76641	19	11°863	19°511
76346	15	6°532	7°646	76420	17	7°325	10°911	76494	20	15°265	13°513	76568	20	14°706	16°830	76642	12	12°433	19°617
76347	18	7°575	7°591	76421	16	8°720	10°685	76495	14	15°693	13°247	76569	14	16°438	16°346	76643	10	16°069	19°844
76348	13	8°097	7°658	76422	16	9°877	10°550	76496	18	16°319	13°154	76570	9	19°160	16°327	76644	15	16°719	19°284
76349	15	8°136	7°141	76423	22	11°798	10°666	76497	21	19°049	13°970	76571*	36	19°169	16°989	76645	14	17°515	19°229
76350	12	9°384	7°130	76424	18	13°680	10°644	76498	12	21°463	13°614	76572	10	19°689	16°763	76646	11	18°060	19°428
76351*	43	10°266	7°467	76425	28	13°900	10°934	76499	13	21°820	13°487	76573	19	22°140	16°507	76647	14	19°144	19°982
76352	12	14°743	7°250	76426	17	16°915	10°289	76500	13	22°047	13°518	76574	11	22°907	16°060	76648	13	19°569	19°571
76353	17	14°820	7°124	76427	22	18°009	10°635	76501	18	22°105	13°168	76575	17	23°087	16°705	76649	13	20°282	19°006
76354	16	14°972	7°552	76428	17	19°818	10°880	76502	12	22°226	13°566	76576	13	25°341	16°773	76650	11	20°883	19°843
76355	17	16°155	7°686	76429	13	19°957	10°015	76503*	38	23°119	13°006	76577	17	25°571	16°232	76651*	45	22°084	19°610
76356	22	17°401	7°876	76430	18	20°176	10°090	76504	12	23°240	13°585	76578	18	0°557	17°414	76652	18	22°244	19°539
76357	17	18°200	7°520	76431	14	21°918	10°406	76505	14	23°725	13°094	76579	23	1°091	17°929	76653	17	22°980	19°486
76358	14	20°224	7°059	76432	13	22°372	10°139	76506	13	25°367	13°062	76580	18	4°356	17°787	76654	16	23°616	19°352
76359	15	21°110	7°807	76433	24	0°410	11°462	76507	26	0°111	14°020	76581	14	4°693	17°211	76655	14	24°014	19°141
76360	16	22°914	7°525	76434	20	1°833	11°016	76508	24	0°477	14°971	76582	16	8°144	17°064	76656	15	24°521	19°440
76361	22	23°208	7°001	76435	18	2°691	11°887	76509	18	4°323	14°083	76583*	24	8°450	17°524	76657	16	25°560	19°811
76362	14	24°731	7°285	76436	17	2°738	11°911	76510	20	5°666	14°383	76584	13	8°497	17°339	76658	18	25°629	19°232
76363	22	25°210	7°839	76437	17	3°938	11°275	76511	14	7°198	14°323	76585	13	9°119	17°332	76659	11	25°790	19°614
76364	18	1°506	8°766	76438															

76672	17	10°57'1	20°435	76746	14	11°50'2	23°17'8	<div>R. A. 22^h 12^m</div> <div>Plate 2385 ; 1904 Sept. 21.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-00038 -00471 +0271</div> <div>D E F</div> <div>+00464 -00048 -1846</div> <div>Mag. = 15.9 - 1.25 √d</div>	76957	12	4°40'3	2°53'7	77031	10	6°47'1	4°99'4
76673	16	10°9'15	20°439	76747	17	11°52'0	23°31'5		76958	13	4°8'77	2°37'1	77032	10	6°88'1	4°75'3
76674	15	12°14'8	20°825	76748	12	12°08'3	23°39'6		76959	10	5°22'4	2°33'2	77033	11	7°31'7	4°20'7
76675	21	15°07'0	20°467	76749	14	12°72'9	23°23'0		76960	13	5°29'6	2°19'5	77034	13	8°76'7	4°18'6
76676	11	15°20'8	20°474	76750	17	14°14'8	23°42'8	76961	12	5°74'4	2°63'5	77035	12	9°33'8	4°48'9	
76677	12	15°63'1	20°669	76751	15	14°97'1	23°58'2	76962	13	6°24'5	2°63'1	77036	11	9°53'2	4°33'7	
76678	13	15°75'8	20°298	76752	15	16°28'0	23°32'8	76963	19	7°77'0	2°31'7	77037	12	9°59'3	4°00'0	
76679	22	18°68'1	20°165	76753	11	16°33'1	23°92'7	76964	11	8°27'0	2°05'7	77038	13	11°90'8	4°81'1	
76680	13	19°15'7	20°733	76754	14	16°58'0	23°38'7	76965	13	8°53'9	2°08'3	77039	10	12°16'5	4°71'8	
76681	12	20°46'7	20°757	76755	17	18°11'0	23°79'6	76966	12	8°93'0	2°59'7	77040	13	12°42'2	4°33'0	
76682	14	20°64'9	20°930	76756	18	19°17'6	23°74'3	76967	11	9°74'4	2°04'0	77041	12	12°86'1	4°33'4	
76683*	40	21°18'4	20°719	76757	20	19°57'0	23°99'2	76968	12	9°77'5	2°73'1	77042*	31	14°81'8	4°62'2	
76684	15	21°48'7	20°302	76758	14	20°33'0	23°96'5	76969	22	10°13'0	2°34'2	77043	12	15°23'6	4°22'1	
76685	10	21°78'9	20°786	76759	18	21°76'9	23°56'6	76970	12	11°67'5	2°88'0	77044	15	15°56'4	4°31'9	
76686	14	22°94'4	20°224	76760	18	21°88'5	23°46'0	76971	12	12°50'0	2°97'7	77045	12	16°11'4	4°88'5	
76687	12	24°60'9	20°552	76761	14	22°45'8	23°60'1	76972	16	12°56'0	2°59'5	77046	13	16°51'0	4°59'9	
76688	24	2°32'8	21°28'8	76762	25	2°53'8	24°84'4	76973	12	13°53'2	2°26'9	77047	28	17°24'9	4°02'5	
76689	17	5°24'4	21°49'3	76763	25	2°79'7	24°63'2	76974	32	13°93'3	2°34'1	77048	10	17°51'7	4°20'1	
76690	20	5°53'0	21°26'3	76764	19	3°56'0	24°96'3	76975	11	14°46'1	2°82'6	77049	9	19°34'8	4°17'2	
76691	13	7°47'6	21°54'1	76765	14	3°60'4	24°99'2	76976	21	14°63'3	2°20'7	77050	11	19°65'0	4°68'0	
76692	14	8°39'5	21°72'2	76766	24	5°71'7	24°42'9	76977	12	16°62'7	2°90'1	77051	15	20°24'0	4°08'1	
76693	18	8°49'3	21°33'0	76767	15	5°72'6	24°28'1	76978	13	17°56'4	2°07'0	77052	12	20°24'3	4°10'2	
76694	13	9°01'0	21°07'9	76768	17	8°65'7	24°15'8	76979	12	18°38'0	2°64'9	77053	22	20°55'9	4°33'9	
76695	10	9°14'7	21°23'1	76769	19	9°58'0	24°54'9	76980*	35	19°41'0	2°71'7	77054	13	21°51'0	4°79'7	
76696	18	10°50'0	21°79'0	76770	14	11°00'1	24°30'9	76981	11	20°60'3	2°65'0	77055	12	21°63'5	4°45'4	
76697	11	10°58'8	21°90'9	76771	12	12°23'7	24°65'2	76982	12	20°65'2	2°97'1	77056	11	21°77'7	4°69'5	
76698	22	11°45'7	21°49'0	76772	13	12°48'1	24°49'2	76983	13	21°08'1	2°69'4	77057	13	23°82'9	4°29'0	
76699	11	11°78'8	21°68'5	76773	13	12°83'8	24°19'4	76984	12	22°60'1	2°91'8	77058	11	24°61'6	4°02'6	
76700	14	12°42'2	21°87'0	76774	12	13°37'0	24°78'9	76985	22	23°61'0	2°60'2	77059	12	0°12'9	5°41'1	
76701	17	13°92'2	21°97'1	76775	18	14°30'2	24°44'3	76986	12	24°83'8	2°18'5	77060	11	0°35'1	5°92'2	
76702	13	13°97'0	21°39'4	76776	13	15°37'3	24°82'7	76987	10	24°86'5	2°83'3	77061	12	2°65'7	5°19'1	
76703	12	15°08'9	21°00'4	76777	13	15°42'4	24°25'4	76988	20	25°89'4	2°63'1	77062	13	2°75'6	5°34'0	
76704	15	15°89'8	21°45'9	76778	15	15°99'8	24°63'6	76989	11	0°52'4	3°35'8	77063	12	3°73'8	5°45'2	
76705	19	16°53'0	21°85'7	76779	15	19°66'6	24°36'2	76990	13	1°35'1	3°20'6	77064	13	4°53'7	5°67'4	
76706	16	17°66'1	21°79'0	76780	13	20°96'9	24°58'2	76991	13	1°35'8	3°59'5	77065	10	4°61'0	5°55'1	
76707	15	18°81'3	21°08'7	76781	15	21°00'5	24°03'9	76992	17	2°36'4	3°00'9	77066	13	5°13'5	5°13'5	
76708	20	19°94'5	21°63'9	76782*	26	22°39'8	24°91'1	76993	12	4°84'7	3°01'5	77067	12	5°61'3	5°26'5	
76709	15	22°94'9	21°40'0	76783	14	23°33'5	24°77'2	76994	12	5°13'9	3°94'1	77068	10	6°61'1	5°10'1	
76710	17	24°46'8	21°27'7	76784	18	23°93'1	24°00'8	76995	13	5°17'5	3°61'9	77069	11	6°88'6	5°25'8	
76711	21	0°31'3	22°80'5	76785	18	24°33'6	24°88'1	76996	14	5°35'5	3°24'4	77070	17	6°91'5	5°48'4	
76712	20	4°50'3	22°73'1	76786	29	1°08'3	25°88'1	76997	11	8°12'5	3°03'7	77071	12	8°11'7	5°42'3	
76713	19	5°03'4	22°98'3	76787	28	1°68'0	25°98'0	76998	13	9°28'0	3°07'4	77072	13	9°87'1	5°21'7	
76714	20	5°38'0	22°82'5	76788	23	3°19'0	25°10'5	76999	10	9°35'9	3°73'8	77073	13	10°20'0	5°28'9	
76715	17	6°96'4	22°92'2	76789	22	7°00'9	25°79'9	77000	10	9°51'3	3°21'8	77074	12	10°49'5	5°12'0	
76716	11	7°33'9	22°47'7	76790	25	7°11'8	25°44'4	77001	22	10°40'0	3°90'7	77075	10	10°87'1	5°66'1	
76717	12	8°08'8	22°38'7	76791	17	8°07'0	25°85'5	77002	10	10°93'8	3°52'7	77076	11	11°21'5	5°51'4	
76718	12	8°20'1	22°82'6	76792	17	9°68'0	25°50'9	77003	12	11°02'5	3°85'3	77077	13	11°91'1	5°06'1	
76719	17	10°04'6	22°74'2	76793	17	12°76'6	25°61'4	77004	13	11°29'4	3°06'1	77078	22	12°75'7	5°47'5	
76720	22	10°15'6	22°57'0	76794	21	14°15'0	25°45'0	77005	13	11°55'3	3°26'1	77079	20	13°01'4	5°81'1	
76721	15	10°88'4	22°25'4	76795	20	14°95'9	25°26'1	77006	12	12°04'9	3°98'4	77080	12	14°12'9	5°75'2	
76722	13	11°62'6	22°30'3	76796*	22	15°09'1	25°77'4	77007	20	12°06'7	3°70'8	77081	13	14°56'0	5°12'1	
76723	14	11°88'3	22°06'6	76797	18	17°69'0	25°06'0	77008	10	13°82'9	3°29'6	77082	10	14°82'5	5°69'2	
76724	22	15°51'9	22°89'0	76798	14	17°92'3	25°02'9	77009	18	15°30'9	3°17'7	77083	13	14°97'6	5°87'0	
76725	14	16°01'6	22°40'1	76799	16	19°21'1	25°98'5	77010	11	15°34'3	3°41'5	77084	12	15°16'2	5°23'1	
76726	13	16°22'0	22°74'0	76800	21	20°33'6	25°30'7	77011	13	16°27'1	3°27'7	77085	11	16°87'0	5°16'1	
76727	12	16°50'5	22°52'1	76801	20	24°73'3	25°05'6	77012	11	17°26'3	3°59'1	77086	13	18°99'3	5°24'7	
76728	22	16°96'3	22°72'0					77013	12	17°60'5	3°30'6	77087	11	19°51'6	5°27'3	
76729	13	18°57'2	22°56'6					77014	24	19°44'4	3°87'9	77088	12	20°31'7	5°49'8	
76730	17	18°62'0	22°68'6					770								

77105	13	1°237	6°772	77179	12	24°580	7°105	77253	10	6°449	10°223	77327	12	16°816	12°035	77401	16	14°879	14°599
77106	20	1°424	6°730	77180	13	24°729	7°584	77254	13	8°860	10°714	77328	12	17°393	12°651	77402	17	17°220	14°084
77107	13	1°696	6°260	77181	17	25°116	7°864	77255	10	11°036	10°899	77329*	32	17°403	12°837	77403	13	18°276	14°407
77108	13	1°835	6°467	77182	31	25°300	7°031	77256	12	12°392	10°676	77330*	13	17°529	12°861	77404	12	18°714	14°294
77109	12	2°155	6°191	77183	12	25°481	7°883	77257	13	13°330	10°537	77331	20	18°469	12°894	77405	10	19°249	14°289
77110	10	9°233	6°274	77184	13	25°692	7°464	77258	12	15°857	10°541	77332	13	20°301	12°130	77406	15	20°320	14°090
77111	11	9°880	6°797	77185	10	0°804	8°546	77259	10	20°891	10°379	77333	10	20°914	12°354	77407	11	20°389	14°212
77112	12	9°931	6°062	77186	12	0°861	8°351	77260	12	22°113	10°301	77334	10	21°493	12°758	77408	12	20°605	14°810
77113	12	10°397	6°448	77187	13	1°683	8°945	77261	11	22°848	10°602	77335	10	21°719	12°520	77409	10	21°436	14°909
77114	11	10°950	6°491	77188	12	1°880	8°459	77262	13	22°939	10°722	77336	13	25°160	12°910	77410	12	22°229	14°899
77115*	32	10°995	6°050	77189	13	2°521	8°019	77263	12	24°150	10°561	77337*	36	25°420	12°297	77411	10	22°340	14°719
77116	23	12°845	6°274	77190	16	2°601	8°059	77264	12	24°792	10°370	77338	12	0°084	13°224	77412	11	23°144	14°280
77117	13	12°911	6°712	77191	13	3°780	8°368	77265	16	0°535	11°445	77339*	22	0°141	13°970	77413	11	23°686	14°689
77118	11	13°078	6°157	77192	12	4°524	8°638	77266	19	3°126	11°684	77340*	13	0°314	13°255	77414	11	1°196	15°789
77119	13	13°415	6°348	77193	16	7°350	8°080	77267	13	3°167	11°561	77341	12	0°489	13°299	77415	13	2°095	15°261
77120	11	13°497	6°400	77194	22	7°566	8°806	77268	11	3°193	11°411	77342	13	1°510	13°312	77416	12	2°201	15°346
77121	11	13°725	6°639	77195	13	9°835	8°639	77269	10	4°014	11°241	77343	12	3°681	13°884	77417	13	2°290	15°612
77122	12	13°736	6°724	77196	11	9°897	8°390	77270	13	5°415	11°784	77344	11	4°146	13°406	77418	12	2°660	15°344
77123	13	14°190	6°370	77197	12	10°061	8°995	77271	10	7°565	11°094	77345	11	4°272	13°008	77419	10	3°540	15°851
77124	11	16°336	6°725	77198	18	11°379	8°889	77272	11	7°733	11°601	77346	22	4°944	13°746	77420	13	3°862	15°944
77125*	42	18°201	6°901	77199	11	12°112	8°289	77273	11	7°946	11°684	77347	12	4°956	13°171	77421	12	4°737	15°920
77126	12	18°667	6°660	77200	12	12°266	8°393	77274	12	7°990	11°912	77348	12	5°344	13°896	77422	12	4°769	15°921
77127*	31	19°350	6°543	77201	11	12°584	8°480	77275	10	8°550	11°535	77349	11	6°179	13°829	77423*	22	6°087	15°238
77128	12	19°389	6°845	77202	13	13°645	8°550	77276	10	8°796	11°535	77350*	12	6°708	13°760	77424	12	6°603	15°545
77129	13	19°680	6°318	77203	12	15°016	8°417	77277	11	9°687	11°859	77351	13	6°770	13°982	77425	11	6°894	15°069
77130	11	20°460	6°447	77204	11	15°180	8°000	77278	14	9°805	11°845	77352	12	7°489	13°280	77426	13	7°576	15°670
77131	12	20°489	6°624	77205	12	15°810	8°275	77279	10	10°265	11°276	77353	10	7°686	13°076	77427	19	9°442	15°114
77132	12	22°270	6°028	77206	12	15°860	8°284	77280	12	12°140	11°885	77354	12	8°256	13°380	77428	12	9°652	15°460
77133	11	22°540	6°909	77207	13	20°293	8°106	77281	10	13°142	11°543	77355	11	8°464	13°956	77429*	32	10°130	15°880
77134	22	22°884	6°513	77208	11	20°316	8°610	77282	13	13°386	11°355	77356	12	8°593	13°694	77430	12	11°104	15°764
77135	13	23°056	6°822	77209	12	20°784	8°170	77283	13	14°411	11°445	77357	11	9°336	13°474	77431	13	12°235	15°352
77136	12	23°540	6°722	77210	10	21°514	8°764	77284	13	14°662	11°551	77358	12	9°650	13°279	77432	10	13°606	15°634
77137	11	23°803	6°260	77211	12	25°315	8°235	77285	12	15°544	11°721	77359	12	9°652	13°563	77433	11	14°243	15°311
77138*	32	24°086	6°410	77212	11	25°909	8°830	77286	13	16°072	11°610	77360	13	10°050	13°633	77434	11	15°631	15°715
77139	22	24°098	6°433	77213	12	0°611	9°871	77287	12	16°665	11°584	77361	10	10°266	13°113	77435	12	15°781	15°999
77140	13	24°334	6°095	77214	13	1°575	9°394	77288	11	17°404	11°341	77362	12	10°824	13°285	77436	13	17°396	15°478
77141	12	24°374	6°103	77215	12	2°358	9°311	77289	13	19°825	11°774	77363	13	11°321	13°911	77437	21	17°864	15°755
77142	11	25°886	6°810	77216	13	3°163	9°417	77290	11	20°489	11°747	77364	11	11°394	13°698	77438	10	18°198	15°461
77143	15	1°135	7°255	77217	12	3°825	9°208	77291	12	20°585	11°589	77365	12	12°265	13°844	77439	13	19°130	15°949
77144	10	1°406	7°503	77218	20	5°004	9°830	77292	11	21°920	11°223	77366	10	12°615	13°844	77440	13	21°082	15°152
77145	12	2°950	7°000	77219	21	5°279	9°424	77293	22	22°220	11°124	77367	22	14°639	13°071	77441*	42	21°735	15°605
77146	13	3°134	7°967	77220	13	6°420	9°652	77294	12	23°289	11°120	77368	13	15°621	13°823	77442	11	21°881	15°584
77147	10	3°333	7°393	77221	13	6°525	9°234	77295	11	23°486	11°185	77369	13	17°574	13°728	77443	10	22°369	15°045
77148	15	3°432	7°555	77222	11	6°689	9°596	77296	10	23°802	11°817	77370	12	18°967	13°336	77444	13	23°075	15°731
77149	11	3°551	7°321	77223	10	7°421	9°177	77297	22	24°047	11°273	77371	12	20°299	13°489	77445	12	24°145	15°744
77150	10	4°264	7°477	77224	10	7°805	9°970	77298	12	24°815	11°941	77372	22	20°458	13°172	77446	11	24°805	15°615
77151	12	4°817	7°000	77225	20	8°030	9°747	77299	13	25°986	11°582	77373	15	22°917	13°494	77447	12	25°901	15°618
77152	26	4°847	7°861	77226	11	8°086	9°032	77300	12	0°373	12°903	77374	12	24°349	13°076	77448	13	0°428	16°245
77153	12	6°068	7°194	77227	13	8°270	9°807	77301	12	1°153	12°685	77375	10	24°737	13°430	77449	13	1°379	16°435
77154	13	6°247	7°867	77228	15	8°585	9°009	77302*	32	1°383	12°734	77376	12	24°905	13°957	77450	15	1°605	16°926
77155	12	6°875	7°600	77229	13	9°947	9°507	77303	15	1°861	12°475	77377	10	25°074	13°400	77451	10	2°164	16°313
77156	14	7°837	7°380	77230	11	10°157	9°784	77304	11	1°923	12°061	77378	12	25°160	13°374	77452	13	2°875	16°905
77157	12	8°286	7°736	77231	13	12°702	9°438	77305	12	1°987	12°820	77379	11	25°275	13°230	77453	12	3°528	16°784
77158	22	9°303	7°392	77232	10	13°316	9°557	77306	13	2°200	12°063	77380	13	1°540	14°440	77454	12	3°635	16°485
77159	12	10°225	7°122	77233	13	13°509	9°860	77307	10	2°373	12°242	77381	11	2°396	14°401	77455	12	5°189	16°200
77160	12	11°715	7°029	77234	13	14°035	9°842	77308*	24	2°598	12°654	77382	13	2°557	14°716	77456	12	5°654	16°180
77161	11	12°729	7°467	77235	13	15°797	9°242	77309	12	3°088	12°682	77383	12	3°045	14°969	77457	13	5°865	16°260
77162	12	13°415	7°280	77236	12	18°384	9°676	77310	12	3°377	12°590	77384	20	3°759	14°269	77458	12	5°898	16°462
77163	10	14°788	7°303	77237	13	19°447	9°383	77311	22	3°571	12°237	77385	13	3°894	14°821	77459	13	6°182	16°806
77164	14	14°864	7°251	77238	12	19°500	9°564	77312	12	3°630	12°771	77386*	22	5°021	14°624	77460	10	8°104	16°691
77165	11	14°881	7°408	77239	13	20°155	9°303	77313	22	4°764	12°092	77387	12	5°629	14°270	77461	10	10°165	16°102
77166	22	16°243	7°872	77240	12	20°652	9°892	77314	12	5°129	12°794	77388	12	5°765	14°329	77462	13	10°805	16°930
77167	12	16°868	7°579	77241	10	22°248	9°067	77315	20	5°5									

77475	10	15°55'	16°79'	77549	11	13°17'	18°40'	77623	22	14°62'	20°12'	77697	13	25°52'	22°08'	77771	10	5°27'	25°53'
77476	13	18°50'	16°63'	77550	11	18°67'	18°51'	77624	11	15°36'	20°53'	77698	13	0°11'	23°30'	77772	11	6°06'	25°35'
77477*	52	18°61'	16°18'	77551	11	16°92'	18°84'	77625	22	15°40'	20°27'	77699	14	0°80'	23°33'	77773	14	6°68'	25°21'
77478	11	19°99'	16°85'	77552	11	16°94'	18°11'	77626	10	17°00'	20°59'	77700	13	2°28'	23°73'	77774	20	10°78'	25°34'
77479	10	21°81'	16°49'	77553	13	17°35'	18°93'	77627	13	17°24'	20°50'	77701	12	3°78'	23°53'	77775	11	11°13'	25°19'
77480	11	22°70'	16°09'	77554	16	17°35'	18°65'	77628	12	17°57'	20°71'	77702	17	4°54'	23°96'	77776	12	12°06'	25°60'
77481	13	22°79'	16°56'	77555	12	18°34'	18°82'	77629	12	18°65'	20°28'	77703	13	5°25'	23°85'	77777	13	12°15'	25°09'
77482	12	23°50'	16°57'	77556	13	18°76'	18°19'	77630	24	20°12'	20°44'	77704	15	5°53'	23°53'	77778	10	12°53'	25°30'
77483	10	23°88'	16°75'	77557	12	18°88'	18°81'	77631	13	21°09'	20°17'	77705	16	6°16'	23°11'	77779	21	12°58'	25°89'
77484	11	24°54'	16°72'	77558	13	20°27'	18°29'	77632	11	21°21'	20°91'	77706	10	6°23'	23°69'	77780	13	12°94'	25°64'
77485	12	24°81'	16°36'	77559	10	20°51'	18°56'	77633	12	21°61'	20°03'	77707	15	6°60'	23°58'	77781	10	13°78'	25°44'
77486	10	25°52'	16°11'	77560	12	21°01'	18°75'	77634	10	22°13'	20°13'	77708	12	7°08'	23°56'	77782	22	14°34'	25°37'
77487	13	0°05'	17°23'	77561	16	22°57'	18°12'	77635	13	22°49'	20°71'	77709	12	7°10'	23°81'	77783	12	14°76'	25°74'
77488	22	0°09'	17°45'	77562	12	24°61'	18°64'	77636	14	22°53'	20°73'	77710	13	7°51'	23°57'	77784	12	15°13'	25°83'
77489	10	1°11'	17°25'	77563	11	24°90'	18°10'	77637	13	22°60'	20°62'	77711	10	8°06'	23°48'	77785	13	16°33'	25°12'
77490	13	1°38'	17°12'	77564	11	25°27'	18°36'	77638	21	23°45'	20°79'	77712	13	8°87'	23°21'	77786	12	16°77'	25°40'
77491	14	1°69'	17°08'	77565	14	25°70'	18°11'	77639	13	23°78'	20°98'	77713	14	9°82'	23°78'	77787	15	17°04'	25°78'
77492	12	3°24'	17°96'	77566*	41	0°40'	19°34'	77640	23	0°34'	21°93'	77714	12	10°22'	23°30'	77788	10	17°60'	25°44'
77493	12	3°46'	17°36'	77567	15	0°55'	19°27'	77641	12	1°27'	21°13'	77715	12	10°40'	23°95'	77789	13	18°74'	25°33'
77494	13	3°67'	17°82'	77568	13	1°26'	19°52'	77642	11	3°74'	21°27'	77716	12	10°58'	23°33'	77790	12	19°05'	25°22'
77495	11	4°87'	17°32'	77569	14	1°29'	19°21'	77643	10	4°65'	21°61'	77717	12	10°92'	23°76'	77791	12	19°31'	25°86'
77496	20	5°16'	17°41'	77570	12	1°27'	19°07'	77644	12	5°19'	21°19'	77718	20	10°97'	23°42'	77792	22	19°80'	25°17'
77497	11	6°76'	17°50'	77571	13	2°83'	19°15'	77645	11	7°87'	21°52'	77719	12	11°06'	23°55'	77793	10	20°06'	25°18'
77498	13	7°27'	17°45'	77572	10	3°08'	19°26'	77646	13	8°57'	21°73'	77720	12	13°37'	23°26'	77794	13	20°71'	25°38'
77499	12	7°88'	17°45'	77573	13	3°87'	19°52'	77647	17	10°78'	21°38'	77721	12	14°82'	23°48'	77795	12	20°78'	25°10'
77500	10	7°89'	17°35'	77574	12	4°10'	19°32'	77648	12	11°12'	21°95'	77722*	42	14°99'	23°51'	77796	13	21°86'	25°35'
77501	11	7°99'	17°07'	77575	13	4°34'	19°21'	77649	12	15°29'	21°88'	77723	13	16°66'	23°42'	77797	12	24°93'	25°92'
77502	13	9°12'	17°18'	77576	12	4°83'	19°14'	77650	12	15°31'	21°66'	77724	14	16°72'	23°83'				
77503	10	11°08'	17°67'	77577	22	5°86'	19°51'	77651	10	16°66'	21°49'	77725	19	16°92'	23°70'				
77504	10	11°42'	17°28'	77578	12	6°61'	19°54'	77652	13	16°66'	21°19'	77726	22	17°76'	23°88'				
77505	10	11°89'	17°27'	77579	10	7°41'	19°53'	77653	10	17°32'	21°39'	77727	12	19°14'	23°74'				
77506	12	12°16'	17°37'	77580	11	7°58'	19°35'	77654	14	17°66'	21°37'	77728	11	20°02'	23°12'				
77507	12	13°08'	17°93'	77581	12	7°73'	19°33'	77655	10	18°11'	21°31'	77729	12	21°02'	23°31'				
77508	11	13°28'	17°00'	77582	13	11°58'	19°76'	77656	10	18°58'	21°42'	77730	11	23°42'	23°40'				
77509	13	13°87'	17°15'	77583	15	12°46'	19°26'	77657	11	21°22'	21°05'	77731	19	24°27'	23°19'				
77510	21	14°33'	17°03'	77584	11	12°48'	19°29'	77658	12	21°42'	21°64'	77732	11	24°30'	23°70'				
77511	11	14°61'	17°08'	77585	11	13°19'	19°41'	77659	13	22°56'	21°67'	77733	13	24°56'	23°15'				
77512	12	14°79'	17°28'	77586	10	13°52'	19°14'	77660	12	22°95'	21°68'	77734	13	25°37'	23°43'				
77513	11	16°10'	17°35'	77587	18	14°31'	19°05'	77661	13	24°20'	21°10'	77735	22	25°52'	23°99'				
77514	12	17°04'	17°24'	77588	10	14°63'	19°55'	77662	24	25°28'	21°59'	77736	12	25°79'	23°67'				
77515	13	17°29'	17°67'	77589	11	15°05'	19°68'	77663	12	25°86'	21°61'	77737	13	25°92'	23°32'				
77516	12	18°01'	17°05'	77590	12	15°56'	19°48'	77664	13	25°96'	21°88'	77738*	30	0°75'	24°64'				
77517	13	18°43'	17°60'	77591	13	16°37'	19°21'	77665	14	0°72'	22°51'	77739	17	1°68'	24°50'				
77518	13	19°20'	17°52'	77592	10	17°78'	19°25'	77666	13	2°78'	22°25'	77740	15	2°69'	24°60'				
77519	10	19°62'	17°89'	77593	12	17°85'	19°53'	77667	12	2°88'	22°66'	77741	18	3°09'	24°77'				
77520	13	19°77'	17°61'	77594	11	18°60'	19°84'	77668	10	3°05'	22°17'	77742	13	5°88'	24°95'				
77521	10	19°82'	17°99'	77595	11	18°75'	19°40'	77669	13	3°83'	22°41'	77743	14	6°48'	24°02'				
77522	10	20°19'	17°51'	77596	13	19°35'	19°13'	77670	12	4°39'	22°06'	77744	13	6°65'	24°19'				
77523	13	21°48'	17°29'	77597	10	19°45'	19°17'	77671	11	5°44'	22°46'	77745	12	7°61'	24°32'				
77524	11	21°74'	17°66'	77598	12	21°32'	19°12'	77672	14	5°77'	22°71'	77746	13	7°68'	24°38'				
77525	12	22°88'	17°93'	77599	11	21°32'	19°08'	77673	12	6°19'	22°18'	77747	12	8°04'	24°10'				
77526	10	23°21'	17°25'	77600	12	22°59'	19°91'	77674	12	7°39'	22°13'	77748	12	8°12'	24°73'				
77527	11	23°57'	17°94'	77601	10	22°94'	19°10'	77675	12	9°48'	22°23'	77749	10	9°31'	24°87'				
77528	12	24°12'	17°47'	77602	12	23°06'	19°70'	77676	13	11°34'	22°59'	77750	11	9°35'	24°68'				
77529	13	24°47'	17°10'	77603	10	23°90'	19°33'	77677	12	11°82'	22°63'	77751	10	9°69'	24°73'				
77530	12	25°48'	17°79'	77604	22	24°51'	19°98'	77678	10	12°02'	22°40'	77752	12	10°35'	24°84'				
77531	13	25°92'	17°25'	77605	11	1°52'	20°65'	77679*	34	12°09'	22°14'	77753	11	11°50'	24°34'				
77532	13	0°98'	18°17'	77606	12	2°79'	20°99'	77680	10	12°54'	22°74'	77754	13	12°39'	24°98'				
77533	12	2°32'	18°86'	77607	13	2°93'	20°26'	77681	12	13°22'	22°30'	77755	11	13°62'	24°16'				
77534	15	2°34'	18°47'	77608	12	2°99'	20°46'	77682	13	13°34'	22°08'	77756	13	13°92'	24°09'				
77535	11	2°35'	18°09'	77609	15	4°91'	20°91'	77683	10	13°37'	22°18'	77757	10	14°56'	24°49'				
77536	13	2°44'	18°62'	77610	11	5°22'	20°21'	77684	10	13°74'	22°88'	77758	12	15°28'	24°26'				
77537	12	2°85'	18°42'	77611	11	8°03'	20°85'	77685	22	14°40'	22°07'	77759	10	15°70'	24°70'				
77538*	55	3°63'	18°25'	77612	11	8°33'	20°09'	77686	10	16°16'	22°50'	77760	13	18°01'	24°45'				
77539	12	3°78'	18°35'	77613	11	8°37'	20°14'	77687	11	19°40'	22°61'	77761	11	18°16'	24°56'				
77540	13	3°93'	18°94'	77614	11	8°37'	20°27'	77688	12	20°75'	22°24'	77762	12	19°29'	24°19'				
77541	17	5°79'	18°15'	77615	11	9°07'	20°66'	77689	10	20°83'	22°55'	77763	13	22°30'	24°27'				
77542	22	5°82'	18°95'	77616	22	9°57'	20°86'	77690	13	22°62'	22°52'	77764	13	22°40'	24°51'				
77543	10	6°54'	18°96'	77617	13	10°15'	20°84'	77691	12	22°76'	22°35'	77765	12	23°02'	24°39'				
77544	11	7°25'	18°18'	77618	23	11°23'	20°94'	77692	13	22°84'	22°73'								

77825	10	5.669	1.965	77899	17	4.230	4.318	77973	15	1.502	7.589	78047	14	11.082	10.269	78121	12	11.789	14.498
77826	17	5.683	1.044	77900	12	5.415	4.747	77974	14	2.010	7.202	78048	20	11.558	10.667	78122	13	12.240	14.292
77827	26	5.695	1.727	77901	11	6.009	4.916	77975	13	2.186	7.635	78049	18	12.643	10.436	78123	18	13.756	14.079
77828	15	8.396	1.936	77902	18	6.384	4.445	77976	15	2.883	7.744	78050	15	18.133	10.182	78124	17	15.583	14.325
77829	21	8.412	1.561	77903	14	11.601	4.098	77977	34	3.441	7.180	78051	15	18.164	10.883	78125	13	21.400	14.944
77830	15	8.539	1.569	77904	30	11.842	4.945	77978	15	3.838	7.609	78052	12	18.242	10.337	78126	13	22.413	14.955
77831	11	8.799	1.322	77905	12	14.174	4.349	77979	14	6.133	7.661	78053	17	21.693	10.490	78127	12	22.659	14.651
77832	12	10.123	1.900	77906	14	14.805	4.205	77980	11	8.269	7.486	78054	13	21.708	10.489	78128	14	22.858	14.049
77833	10	10.304	1.696	77907	24	15.631	4.561	77981	27	8.278	7.060	78055	12	22.825	10.034	78129	16	23.209	14.503
77834	18	11.914	1.140	77908	15	16.125	4.520	77982	22	8.443	7.783	78056	19	24.770	10.462	78130	20	24.837	14.717
77835	14	12.100	1.919	77909	13	19.249	4.816	77983*	31	10.967	7.661	78057	15	0.150	11.439	78131	13	25.856	14.532
77836	13	12.329	1.329	77910	12	20.056	4.449	77984*	24	11.005	7.520	78058	29	0.446	11.331	78132*	55	0.052	15.825
77837	20	13.947	1.045	77911	10	20.729	4.640	77985	15	12.972	7.719	78059	16	1.513	11.307	78133	19	1.397	15.922
77838	14	14.156	1.630	77912	11	21.298	4.553	77986	11	13.415	7.831	78060	26	2.276	11.446	78134	14	3.125	15.771
77839	18	14.840	1.570	77913	10	21.398	4.578	77987	13	15.455	7.561	78061	14	4.217	11.716	78135	13	4.218	15.749
77840	15	15.018	1.941	77914	13	21.406	4.495	77988	13	15.629	7.862	78062	11	6.900	11.511	78136	16	4.781	15.287
77841	14	15.511	1.429	77915*	60	22.562	4.490	77989	14	18.261	7.144	78063	19	10.542	11.610	78137	13	5.203	15.914
77842	16	15.702	1.880	77916	22	23.092	4.101	77990	22	18.677	7.382	78064	14	12.826	11.445	78138	12	7.056	15.773
77843	15	15.925	1.684	77917	20	23.806	4.904	77991	10	20.264	7.351	78065	20	13.225	11.663	78139	11	7.199	15.624
77844	13	16.094	1.232	77918	16	0.895	5.957	77992	22	21.095	7.110	78066	17	17.120	11.440	78140	14	9.120	15.643
77845	14	16.301	1.874	77919	17	2.838	5.207	77993	19	21.223	7.581	78067	12	21.069	11.216	78141	22	12.440	15.071
77846	13	18.565	1.617	77920	19	3.156	5.902	77994	11	21.378	7.464	78068	14	22.272	11.259	78142	14	12.926	15.192
77847	14	18.819	1.494	77921	17	3.831	5.168	77995	11	22.935	7.333	78069	14	23.163	11.998	78143	11	13.490	15.277
77848	15	19.246	1.828	77922	15	3.849	5.533	77996	13	25.600	7.080	78070	12	24.371	11.577	78144	17	13.816	15.180
77849	16	21.541	1.236	77923	14	4.242	5.647	77997	22	1.868	8.070	78071*	35	3.669	12.446	78145	18	15.574	15.960
77850	14	22.572	1.658	77924	22	6.448	5.444	77998	26	1.916	8.049	78072	10	4.352	12.420	78146	19	16.259	15.807
77851	15	24.541	1.937	77925	14	7.590	5.557	77999	18	3.272	8.019	78073	10	4.370	12.922	78147	18	16.298	15.342
77852	28	1.659	2.788	77926	14	11.525	5.337	78000	15	3.638	8.027	78074	10	5.046	12.654	78148	27	16.920	15.344
77853	18	3.945	2.768	77927	21	11.793	5.732	78001	13	5.679	8.024	78075	12	5.396	12.054	78149	19	18.432	15.790
77854	18	6.223	2.323	77928	19	12.372	5.811	78002	13	5.810	8.308	78076	11	9.033	12.872	78150	15	22.198	15.232
77855	18	6.533	2.957	77929	15	13.620	5.705	78003	18	6.740	8.436	78077	20	11.269	12.894	78151	19	23.132	15.687
77856	12	7.232	2.518	77930	16	14.471	5.556	78004	12	6.900	8.303	78078	22	13.460	12.563	78152	17	23.241	15.670
77857	17	10.760	2.841	77931	14	14.792	5.711	78005	13	7.169	8.056	78079	16	13.505	12.551	78153	13	23.490	15.721
77858	13	10.889	2.629	77932	13	15.603	5.548	78006	20	10.049	8.731	78080	15	16.345	12.032	78154	15	25.209	15.141
77859	21	10.901	2.431	77933	18	17.883	5.735	78007	19	10.322	8.360	78081	17	16.420	12.510	78155	21	1.135	16.764
77860	13	11.892	2.649	77934	20	20.740	5.241	78008	14	11.406	8.264	78082	15	19.240	12.023	78156	18	4.966	16.970
77861	9	15.146	2.657	77935	12	21.299	5.466	78009	22	15.192	8.266	78083	14	19.659	12.462	78157	15	5.264	16.198
77862	11	15.373	2.308	77936	10	21.825	5.638	78010	14	18.408	8.862	78084	15	19.747	12.993	78158	12	5.387	16.222
77863	11	17.088	2.465	77937*	40	22.510	5.423	78011	15	19.933	8.556	78085	13	20.768	12.946	78159	15	6.401	16.368
77864	20	20.835	2.240	77938	10	23.959	5.521	78012	12	20.552	8.969	78086	11	21.269	12.233	78160	13	6.569	16.119
77865	13	22.098	2.119	77939	13	25.472	5.260	78013	12	21.634	8.588	78087	11	22.908	12.156	78161	14	6.713	16.074
77866	27	24.120	2.518	77940	26	1.013	6.711	78014	13	22.397	8.601	78088	12	23.252	12.831	78162	13	6.730	16.519
77867	17	24.347	2.490	77941	18	1.676	6.906	78015	15	25.352	8.549	78089	11	23.254	12.264	78163	12	7.867	16.640
77868	16	24.898	2.845	77942*	40	2.211	6.585	78016	14	25.685	8.144	78090	13	23.348	12.493	78164	11	8.226	16.419
77869	11	25.811	2.951	77943	28	2.230	6.606	78017	23	1.847	9.903	78091	14	23.659	12.559	78165	11	9.104	16.975
77870	22	1.515	3.992	77944	19	2.456	6.263	78018	21	2.819	9.425	78092	12	25.182	12.927	78166	15	9.295	16.600
77871	25	2.698	3.227	77945	16	2.496	6.271	78019	12	4.152	9.557	78093	13	25.315	12.249	78167	13	9.513	16.609
77872	20	3.728	3.502	77946	17	4.591	6.994	78020	15	4.321	9.420	78094	22	1.192	13.690	78168*	18	11.526	16.585
77873	22	4.342	3.652	77947	18	4.946	6.607	78021	17	5.308	9.511	78095	15	2.615	13.240	78169	17	12.786	16.793
77874	15	7.441	3.703	77948	22	7.422	6.975	78022	16	5.820	9.304	78096	11	3.347	13.550	78170	14	13.433	16.552
77875	13	8.602	3.430	77949	14	7.646	6.480	78023	20	7.163	9.801	78097	17	3.431	13.525	78171*	22	14.169	16.918
77876	15	8.961	3.372	77950	14	8.091	6.446	78024	15	9.918	9.839	78098	20	5.119	13.067	78172	17	14.290	16.201
77877	22	12.890	3.120	77951	16	8.671	6.731	78025	13	10.442	9.157	78099	12	6.920	13.739	78173	24	16.175	16.063
77878	18	12.959	3.649	77952	10	11.408	6.710	78026	15	10.835	9.520	78100	21	8.930	13.221	78174*	38	17.720	16.480
77879	16	13.518	3.830	77953	12	11.737	6.307	78027	11	10.876	9.309	78101	17	9.450	13.163	78175	12	19.919	16.574
77880	22	13.532	3.439	77954	12	12.781	6.438	78028	17	11.974	9.875	78102	16	10.718	13.792	78176	14	21.375	16.100
77881	10	14.503	3.564	77955	17	12.967	6.144	78029	14	15.767	9.395	78103	17	13.477	13.121	78177	12	21.890	16.704
77882	12	14.594	3.350	77956	12	13.198	6.043	78030	15	16.062	9.446	78104	19	16.106	13.973	78178	10	22.488	16.970
77883	21	14.668	3.829	77957	13	13.595	6.666	78031	21	17.168	9.244	78105	15	16.971	13.484	78179	14	23.644	16.983
77884	21	14.934	3.712	77958	16	15.021	6.220	78032	14	17.849	9.885	78106	22	18.748	13.123	78180	11	23.711	16.704
77885	10	18.501	3.054	77959	15	15.261	6.202	78033	15	19.739	9.484	78107	14	21.784	13.004	78181	15	24.294	16.413
77886	12	20.254	3.281	77960	16	16.057	6.299	78034	11	20.274	9.657	78108	10	22.933	13.841	78182	11	24.681	16.088
77887	13	20.432	3.946	77961	17	17.600	6.935	78035	18	25.124	9.250	78109	12						

78195	13	14°33'0	17°06'3	78269	17	14°8'54	20°2'68	78343	15	7°4'14	23°7'82	78557	12	14°3'19	2°35'8
78196	16	15°2'66	17°6'56	78270	19	14°8'89	20°5'18	78344*	21	9°6'72	23°2'35	78558	10	14°4'87	2°7'07
78197	14	15°4'17	17°6'40	78271	20	16°5'98	20°9'34	78345	12	10°1'39	23°8'29	78559	11	14°7'22	2°1'40
78198	21	19°7'65	17°9'69	78272	11	17°6'97	20°1'96	78346	21	13°5'58	23°4'45	78560	11	14°8'94	2°4'11
78199	9	20°8'83	17°8'14	78273	13	18°1'91	20°1'22	78347	12	13°9'89	23°1'52	78561	13	15°0'26	2°0'29
78200	10	20°9'54	17°5'18	78274	12	18°1'94	20°9'71	78348	12	15°4'20	23°8'71	78562	22	15°2'84	2°2'21
78201	14	23°9'71	17°8'18	78275	15	18°3'69	20°6'35	78349	20	15°6'11	23°6'49	78563	10	16°1'74	2°7'39
78202	13	24°6'45	17°1'81	78276	12	18°6'70	20°6'83	78350	10	17°6'54	23°5'53	78564	13	16°3'40	2°2'44
78203	15	25°2'00	17°3'30	78277	12	19°6'40	20°2'05	78351	21	22°4'49	23°0'21	78565	24	16°8'24	2°3'07
78204	24	0°9'40	18°3'26	78278	18	21°2'54	20°0'64	78352	17	23°0'99	23°0'80	78566	9	17°0'21	2°4'64
78205	12	3°2'64	18°2'59	78279	17	23°6'19	20°8'32	78353	14	24°1'08	23°3'18	78567	12	17°7'42	2°0'09
78206	16	4°0'78	18°2'50	78280	25	2°2'14	21°1'60	78354	19	24°1'48	23°9'56	78568	12	18°5'39	2°5'71
78207	19	5°6'11	18°1'29	78281	27	3°7'23	21°7'42	78355	26	0°8'01	24°4'81	78569	11	18°8'97	2°2'05
78208	18	5°8'76	18°6'40	78282	17	4°4'87	21°0'51	78356	27	0°8'99	24°7'15	78570	12	18°9'35	2°9'68
78209	13	6°4'07	18°2'16	78283	14	4°7'42	21°4'60	78357	9	3°5'02	24°4'49	78571	13	19°9'44	2°2'36
78210	14	10°8'58	18°0'20	78284	13	5°2'16	21°7'85	78358	19	3°9'63	24°9'90	78572	11	20°3'27	2°7'48
78211	13	12°1'38	18°4'43	78285	16	5°3'07	21°7'49	78359	27	4°0'18	24°1'33	78573	11	20°4'98	2°2'56
78212	12	12°7'14	18°2'51	78286	12	7°0'44	21°3'89	78360	17	4°9'65	24°8'27	78574	14	22°9'41	2°1'39
78213	13	15°8'99	18°6'49	78287	11	7°3'70	21°5'20	78361	17	7°9'12	24°5'14	78575	13	24°1'81	2°3'79
78214	12	16°4'98	18°4'78	78288	12	7°5'20	21°2'72	78362	12	8°5'48	24°0'32	78576	18	25°4'61	2°8'33
78215*	57	16°7'29	18°1'14	78289	11	7°8'21	21°6'37	78363	13	11°8'29	24°2'26	78577	22	1°9'99	3°1'52
78216	14	18°1'58	18°2'44	78290	20	7°9'97	21°6'37	78364	18	12°9'39	24°5'28	78578	22	2°9'11	3°2'14
78217	16	18°8'69	18°4'38	78291	12	8°7'38	21°3'96	78365	15	13°1'18	24°7'85	78579	12	4°0'52	3°0'24
78218	10	19°7'60	18°0'93	78292	11	9°3'07	21°0'19	78366	12	13°5'39	24°3'23	78580	11	4°7'38	3°7'32
78219	15	20°4'89	18°2'58	78293	14	12°5'99	21°0'73	78367	13	14°0'88	24°2'12	78581	22	5°1'46	3°2'37
78220	16	20°6'81	18°4'04	78294	23	12°6'35	21°2'85	78368	12	14°2'84	24°9'09	78582	15	7°1'86	3°7'46
78221	14	21°6'42	18°1'11	78295	11	13°0'92	21°3'40	78369	20	16°1'15	24°6'66	78583	14	7°7'22	3°7'85
78222	21	21°6'50	18°4'78	78296	20	13°1'15	21°3'26	78370	15	16°4'01	24°9'24	78584	13	7°8'10	3°3'41
78223	13	21°7'21	18°5'30	78297	9	17°0'33	21°4'73	78371*	23	17°7'20	24°7'53	78585	14	7°8'58	3°0'08
78224*	29	24°1'43	18°1'02	78298	16	17°0'81	21°9'66	78372	17	19°1'06	24°4'39	78586	13	12°3'92	3°1'90
78225	21	24°7'21	18°1'27	78299	14	17°2'38	21°4'23	78373	13	20°5'13	24°8'83	78587	14	12°6'43	3°9'99
78226	22	24°7'90	18°6'54	78300	13	17°9'80	21°3'30	78374	10	20°7'12	24°6'04	78588	11	13°9'44	3°6'34
78227	12	25°3'69	18°9'10	78301	15	21°8'17	21°8'09	78375	29	20°7'49	24°7'17	78589	13	14°0'99	3°9'30
78228	19	25°4'78	18°8'77	78302	16	22°8'73	21°8'33	78376	14	20°8'78	24°3'68	78590	12	15°1'09	3°7'20
78229	16	8°5'81	19°6'95	78303	15	25°0'51	21°4'99	78377	19	20°9'56	24°8'42	78591	12	15°3'51	3°6'19
78230	18	9°8'85	19°8'94	78304	14	25°2'09	21°3'43	78378	15	21°1'03	24°7'31	78592	22	15°3'55	3°9'08
78231	14	10°3'85	19°8'31	78305	15	25°7'05	21°9'70	78379	19	22°5'39	24°0'15	78593	11	15°5'42	3°8'19
78232	12	10°4'86	19°9'63	78306	24	1°0'85	22°7'24	78380	19	6°4'10	25°0'08	78594	11	15°8'77	3°6'15
78233*	28	10°5'54	19°0'56	78307	20	2°7'03	22°6'06	78381	20	6°4'31	25°4'54	78595	10	16°0'71	3°5'72
78234	12	10°5'79	19°6'43	78308	22	3°8'76	22°3'57	78382	18	6°9'94	25°6'88	78596	12	17°6'61	3°8'73
78235	11	11°9'13	19°3'01	78309	15	3°9'78	22°2'18	78383	15	7°5'00	25°6'60	78597	10	17°7'02	3°1'90
78236	9	12°4'60	19°5'59	78310	14	4°4'10	22°0'13	78384	17	7°5'54	25°8'74	78598	12	18°5'11	3°1'41
78237	22	15°1'10	19°6'33	78311	15	4°8'37	22°1'47	78385	15	7°5'66	25°2'11	78599	11	18°6'65	3°3'78
78238	12	15°3'05	19°8'51	78312	17	5°5'43	22°3'01	78386	19	9°8'41	25°8'00	78600	11	18°8'24	3°4'81
78239	13	16°6'70	19°1'43	78313	14	7°8'18	22°1'13	78387	20	9°9'26	25°9'74	78601	11	19°0'45	3°3'67
78240	25	16°7'93	19°1'24	78314	10	11°5'52	22°3'32	78388	13	10°3'36	25°5'50	78602	11	19°1'74	3°0'63
78241	13	18°4'74	19°2'99	78315	17	11°8'45	22°0'64	78389	13	12°8'62	25°1'13	78603	14	19°4'62	3°2'95
78242	22	20°4'74	19°2'90	78316	14	12°7'60	22°3'41	78390	16	15°0'46	25°2'08	78604	11	19°4'63	3°5'16
78243	12	20°5'32	19°5'85	78317	17	13°1'55	22°0'17	78391	19	15°0'51	25°5'31	78605	12	21°3'80	3°6'90
78244	12	21°8'85	19°3'83	78318	16	13°9'91	22°3'14	78392	14	15°4'00	25°1'86	78606	13	22°7'74	3°9'73
78245	15	22°5'69	19°5'95	78319	13	15°0'27	22°0'30	78393	14	16°5'46	25°1'55	78607	12	23°2'98	3°7'46
78246	21	22°8'51	19°2'63	78320	12	16°3'54	22°3'97	78394	15	16°8'30	25°9'01	78608	11	23°4'71	3°6'57
78247	21	23°7'10	19°4'20	78321	13	17°9'73	22°3'06	78395	13	17°6'78	25°5'44	78609	12	24°7'65	3°8'82
78248	15	25°0'33	19°8'45	78322	12	19°7'11	22°8'10	78396	14	18°2'43	25°8'31	78610*	83	0°6'45	4°5'93
78249	24	0°9'20	20°9'15	78323	16	20°7'86	22°4'88	78397	13	18°2'48	25°4'39	78611	31	1°1'69	4°1'95
78250	27	0°9'62	20°9'32	78324	21	21°3'25	22°4'06	78398*	38	18°4'12	25°1'70	78612	26	1°8'93	4°9'87
78251	20	1°0'28	20°8'23	78325	25	21°7'23	22°5'42	78399	13	19°7'80	25°0'73	78613	12	4°6'05	4°2'82
78252	26	1°8'81	20°9'81	78326	20	23°4'80	22°8'31	78400	15	20°0'25	25°6'67	78614	13	6°1'29	4°9'10
78253	27	2°9'20	20°1'45	78327	13	23°4'99	22°6'66	78401	15	20°6'39	25°0'05	78615	12	7°0'00	4°4'93
78254	15	4°6'91	20°9'93	78328	16	23°7'00	22°4'84	78402	22	23°6'16	25°8'83	78616	10	7°0'66	4°6'62
78255	15	6°5'12	20°9'68	78329	16	24°2'36	22°9'99					78617	11	8°0'70	4°3'39
78256	16	6°6'48	20°5'20	78330	15	24°9'41	22°9'57					78618	14	9°7'91	4°0'88
78257	22	7°2'60	20°8'41	78331	21	25°0'25	22°9'70					78619	21	11°6'82	4°7'66
78258	12	7°5'89	20°0'07	78332	22	25°0'39	22°9'46					78620	17	13°3'58	4°7'35
78259	12	7°6'86	20°9'03	78333	17	25°2'86	22°1'59					78621	18	13°5'42	4°1'25
78260	15	8°0'47	20°7'33	78334	27	25°4'26	22°1'56					78622	11	14°0'41	4°9'07
78261	13	9°5'90	20°4'29	78335	15	25°7'03	22°4'01					78623	22	15°5'14	4°9'23
78262	15	9°8'83	20°4'02	78336	14	25°7'11	22°8'40					78624	13	16°1'35	4°0'04
78263	13	10°3'62	20°0'63	78337	24	2°7'46	23°3'64					78625	13	16°6'10	4°1'00
78264	13	10°6'64	20°0'12	78338	20	3°0'42	23°4'77					78626	11	16°8'03	4°2'88
78265	14	10°9'63	20°8'54	78339	19	3°8'47	23°5'79					78627	13	16°9'56	4°1'98
78266	11	11°0'46	20°6'63	78340	15	4°4'02	23°4'62					78628	11	17°6'21	4°2'99
78267	15	11°5'47	20°0'15	78341	24	6°1'23	23°4'38					78629	24	18°1'16	4°0'47
78268	13	12°9'52	20°4'30	78342	15	7°3'64	23°0'43					78630	11	19°3'60	4°9'99

R. A. 22^h 28^m

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Provisional Constants.

78631	11	20°114	4'495	78705	10	22°033	7'704	78779	13	24°291	10°093	78853	18	1°454	14°593	78927	12	13°229	16°345
78632	12	24°075	4'718	78706	14	22°143	7°280	78780	10	24°335	10°904	78854	23	3°083	14°781	78928	12	14°014	16°964
78633	17	24°869	4'359	78707	13	23°645	7°604	78781	22	0°464	11°366	78855	12	4°100	14°580	78929	13	14°225	16°778
78634*	32	25°552	4'565	78708	22	25°069	7°070	78782	14	2°567	11°649	78856	14	6°169	14°920	78930	15	15°020	16°470
78635*	65	0°607	5'527	78709	17	25°538	7°503	78783	13	6°181	11°828	78857	13	7°418	14°199	78931	14	16°692	16°449
78636	20	2°054	5'603	78710	23	0°548	8°705	78784	14	6°842	11°016	78858	11	8°006	14°032	78932	15	18°244	16°453
78637	19	3°567	5'317	78711	17	3°497	8°607	78785	11	10°481	11°432	78859	13	8°023	14°880	78933	17	19°721	16°240
78638	17	4°841	5°918	78712	13	3°824	8°197	78786	14	10°495	11°447	78860	13	8°135	14°303	78934	13	20°132	16°759
78639	11	5°482	5°321	78713	22	5°386	8°556	78787	13	11°543	11°431	78861	16	8°261	14°557	78935	12	21°275	16°833
78640	12	7°462	5°060	78714	12	5°424	8°201	78788	14	11°683	11°354	78862	12	10°209	14°791	78936	13	21°416	16°530
78641	12	7°765	5°564	78715	14	5°804	8°216	78789	15	11°921	11°371	78863	14	10°976	14°749	78937	12	21°924	16°082
78642	18	9°868	5°865	78716	14	9°549	8°295	78790	15	13°363	11°202	78864	15	11°793	14°730	78938	10	22°411	16°471
78643	20	10°937	5°384	78717	19	11°570	8°978	78791	23	15°601	11°502	78865*	40	12°032	14°019	78939	11	23°340	16°114
78644	11	11°191	5°205	78718	15	12°186	8°471	78792	14	16°794	11°814	78866	11	12°114	14°376	78940	12	23°447	16°888
78645	11	11°737	5°251	78719	17	13°281	8°639	78793	13	19°203	11°369	78867	13	12°491	14°585	78941	12	23°540	16°257
78646	12	12°130	5°228	78720	12	13°340	8°120	78794	13	20°467	11°343	78868	22	14°400	14°714	78942	11	23°630	16°895
78647	14	12°161	5°823	78721	19	14°061	8°205	78795	17	21°959	11°566	78869	12	15°331	14°410	78943	9	24°188	16°773
78648	12	13°612	5°282	78722	10	15°457	8°718	78796	12	22°158	11°649	78870	16	16°599	14°127	78944	13	24°625	16°845
78649*	28	14°394	5°199	78723*	39	15°543	8°180	78797	12	23°362	11°013	78871	16	17°181	14°351	78945	10	1°927	17°067
78650*	13	14°608	5°577	78724	16	15°880	8°656	78798	10	25°270	11°688	78872	10	17°377	14°650	78946	22	2°268	17°897
78651	15	16°588	5°206	78725	12	16°417	8°655	78799	14	25°413	11°049	78873*	24	18°458	14°041	78947	18	2°932	17°245
78652	14	17°028	5°284	78726	11	18°370	8°282	78800	15	1°114	12°253	78874	13	19°947	14°754	78948	13	3°487	17°388
78653	13	17°176	5°734	78727	10	20°701	8°519	78801	17	1°366	12°089	78875	14	20°878	14°167	78949	13	4°628	17°831
78654	12	18°061	5°333	78728	19	20°734	8°187	78802	15	1°468	12°923	78876	22	22°278	14°130	78950	10	6°580	17°362
78655	17	19°586	5°840	78729	11	21°141	8°797	78803	13	1°556	12°582	78877	13	22°476	14°264	78951	22	6°765	17°601
78656	11	22°078	5°345	78730	11	22°137	8°428	78804	16	1°870	12°640	78878	11	23°022	14°092	78952	11	7°741	17°989
78657	12	22°198	5°016	78731	20	22°939	8°786	78805	15	3°522	12°307	78879	13	23°085	14°158	78953	11	8°256	17°272
78658	12	23°722	5°430	78732	12	24°270	8°222	78806	21	4°582	12°368	78880	11	23°829	14°133	78954	10	9°788	17°118
78659	13	25°782	5°757	78733	10	24°636	8°715	78807	11	6°576	12°113	78881	13	25°447	14°831	78955	20	10°011	17°451
78660	36	0°046	6°336	78734	13	24°977	8°832	78808	10	7°289	12°541	78882	22	0°667	15°060	78956	15	10°938	17°853
78661	19	1°423	6°901	78735	13	25°735	8°278	78809	13	10°477	12°389	78883	27	1°395	15°780	78957	11	11°892	17°654
78662	17	1°746	6°886	78736	22	3°282	9°312	78810	18	11°495	12°182	78884	20	1°504	15°757	78958	12	12°876	17°558
78663	19	2°719	6°767	78737	10	3°925	9°575	78811	13	11°765	12°167	78885	18	1°753	15°808	78959	14	13°388	17°805
78664	15	3°093	6°150	78738	13	5°221	9°532	78812	13	12°249	12°665	78886	16	3°462	15°199	78960	15	14°621	17°234
78665	15	3°521	6°679	78739	12	6°842	9°468	78813	16	13°333	12°064	78887	19	4°218	15°620	78961	12	15°739	17°580
78666	17	5°309	6°106	78740	13	7°816	9°731	78814	15	13°535	12°276	78888	15	5°437	15°742	78962	13	17°191	17°602
78667	13	6°127	6°400	78741	12	8°110	9°821	78815	11	14°795	12°591	78889	10	5°900	15°825	78963	12	19°412	17°623
78668	13	6°761	6°023	78742	13	9°708	9°976	78816	22	16°254	12°096	78890	11	6°270	15°656	78964	13	20°214	17°290
78669	14	7°259	6°155	78743	13	11°301	9°956	78817	11	20°663	12°967	78891	12	6°682	15°819	78965	13	21°303	17°335
78670	16	7°620	6°953	78744	14	11°911	9°927	78818	11	20°706	12°516	78892	13	8°016	15°636	78966	22	21°941	17°811
78671	13	10°399	6°635	78745	15	12°100	9°707	78819*	39	20°921	12°250	78893	22	8°094	15°883	78967	17	22°765	17°914
78672	12	10°661	6°733	78746	15	13°476	9°310	78820	11	22°370	12°105	78894	12	10°900	15°690	78968	16	24°551	17°030
78673	14	11°346	6°794	78747	17	13°780	9°089	78821	22	23°451	12°457	78895*	22	10°907	15°162	78969	13	25°075	17°437
78674	15	12°085	6°992	78748	15	15°416	9°506	78822	17	23°846	12°610	78896	16	11°960	15°510	78970*	41	25°682	17°018
78675	12	12°119	6°071	78749	17	16°191	9°340	78823	13	25°797	12°853	78897	19	12°694	15°837	78971	14	25°919	17°308
78676	11	12°865	6°253	78750	19	16°215	9°250	78824	19	0°002	13°118	78898*	35	13°403	15°032	78972*	35	2°443	18°179
78677	13	13°052	6°808	78751	24	17°429	9°711	78825	13	1°501	13°704	78899	15	13°498	15°795	78973	24	3°020	18°193
78678	22	13°512	6°149	78752	10	17°808	9°155	78826	16	3°533	13°230	78900	18	14°641	15°960	78974	25	3°097	18°720
78679	21	15°273	6°280	78753	13	19°459	9°556	78827	22	3°902	13°207	78901	20	15°001	15°970	78975	16	3°681	18°968
78680	12	15°477	6°036	78754	13	19°473	9°538	78828	12	4°760	13°841	78902	14	15°952	15°450	78976	20	3°790	18°931
78681	22	15°594	6°446	78755	12	20°368	9°532	78829	18	5°164	13°556	78903	15	16°254	15°549	78977	17	4°682	18°235
78682	12	15°638	6°060	78756	10	20°684	9°687	78830	14	5°248	13°575	78904	14	16°767	15°508	78978	14	4°751	18°480
78683	21	15°794	6°479	78757	13	21°188	9°945	78831	12	7°020	13°130	78905	13	16°813	15°657	78979*	41	5°672	18°298
78684	16	16°279	6°447	78758	14	22°564	9°260	78832	12	8°409	13°414	78906	13	16°853	15°887	78980	11	7°277	18°924
78685	14	17°327	6°320	78759	12	22°720	9°970	78833	22	9°266	13°934	78907*	36	19°819	15°291	78981	13	7°422	18°330
78686	10	19°948	6°611	78760	15	22°814	9°895	78834	16	9°874	13°196	78908	13	20°598	15°423	78982	11	8°279	18°181
78687	15	20°542	6°376	78761	13	23°734	9°754	78835	13	10°322	13°918	78909	11	22°744	15°122	78983	13	8°760	18°832
78688	16	22°237	6°830	78762	21	2°945	10°527	78836*	42	11°968	13°493	78910	10	23°425	15°797	78984	12	9°412	18°091
78689	19	24°023	6°539	78763*	33	5°802	10°394	78837	14	12°767	13°439	78911	16	24°222	15°061	78985	14	9°924	18°600
78690	18	1°063	7°431	78764	13	6°532	10°920	78838	15	13°653	13°741	78912	14	24°700	15°105	78986	17	12°407	18°214
78691	16	3°721	7°136	78765	14	8°542	10°644	78839	15	15°223	13°525	78913	18	1°992	16°786	78987	10	13°431	18°075
78692	14	6°307	7°164	78766	23	9°620	10°912	78840	16	16°648	13°450	78914	15	2°567	16°488	78988	13	13°474	18°280
78693	15	6°482	7°686	78767	14	11°341													

79001	21	0°207	19°496	79075	12	21°480	21°263	79149	13	19°857	23°982	79210	13	19°439	0°050	79284	9	20°262	5°713
79002	24	0°894	19°695	79076	14	22°930	21°553	79150	11	20°198	23°135	79211	15	21°634	0°716	79285	8	21°561	5°460
79003	31	1°171	19°360	79077	17	23°735	21°399	79151	12	21°685	23°142	79212	8	22°705	0°458	79286	21	25°251	5°444
79004	26	2°033	19°504	79078	17	25°188	21°700	79152	14	22°113	23°359	79213	9	24°394	0°538	79287	9	0°201	6°911
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79006	11	5°455	19°602	79080	27	1°857	22°916	79154	27	0°938	24°116	79215	10	0°915	1°713	79289	14	2°083	6°132
79007	20	5°823	19°693	79081	24	2°071	22°564	79155	24	2°541	24°030	79216	18	3°690	1°087	79290	14	3°148	6°650
79008	12	6°204	19°217	79082	20	3°650	22°216	79156	18	5°334	24°315	79217	19	4°248	1°606	79291	12	4°678	6°942
79009	10	6°975	19°570	79083	26	3°791	22°209	79157	20	6°393	24°945	79218	8	7°128	1°162	79292	8	6°330	6°923
79010	13	8°206	19°158	79084	13	4°071	22°020	79158	17	7°010	24°177	79219	10	9°035	1°360	79293	9	11°491	6°965
79011	20	9°234	19°740	79085	14	4°073	22°454	79159	13	10°127	24°978	79220	9	9°344	1°930	79294	7	12°564	6°427
79012	22	9°969	19°940	79086	17	4°089	22°888	79160	12	11°980	24°169	79221	9	10°081	1°082	79295	14	16°383	6°139
79013	10	10°028	19°415	79087	22	5°291	22°870	79161	22	12°314	24°755	79222	16	12°047	1°942	79296	8	17°126	6°940
79014	14	11°714	19°120	79088	14	5°323	22°531	79162	13	13°841	24°270	79223	11	16°569	1°420	79297	14	17°730	6°487
79015	10	12°259	19°978	79089	12	5°646	22°565	79163	15	13°948	24°988	79224	8	19°210	1°375	79298	10	18°090	6°295
79016	13	12°289	19°678	79090	15	6°744	22°266	79164	22	15°017	24°613	79225	7	19°422	1°906	79299	11	19°155	6°834
79017	22	13°670	19°665	79091	9	8°159	22°184	79165	12	15°105	24°894	79226	9	19°501	1°777	79300	12	21°421	6°686
79018	24	15°096	19°130	79092	14	8°200	22°044	79166	12	15°947	24°346	79227	8	20°980	1°722	79301	11	22°291	6°748
79019	16	16°605	19°166	79093	11	8°436	22°165	79167	12	16°710	24°219	79228	7	23°311	1°589	79302	8	23°293	6°567
79020	12	18°554	19°134	79094	12	8°512	22°304	79168	11	16°769	24°344	79229	17	24°550	1°714	79303	10	24°187	6°799
79021	10	19°891	19°976	79095	11	8°986	22°129	79169	18	18°040	24°059	79230	10	24°995	1°706	79304	8	24°377	6°031
79022*	31	19°942	19°364	79096*	31	9°308	22°257	79170	15	18°785	24°903	79231	8	3°470	2°371	79305*	20	25°506	6°116
79023	11	20°089	19°055	79097	12	9°536	22°895	79171	12	19°513	24°341	79232	9	4°842	2°448	79306*	19	25°613	6°175
79024	23	20°806	19°388	79098	10	9°770	22°721	79172	14	21°463	24°684	79233	11	5°265	2°445	79307	8	1°722	7°210
79025	20	20°950	19°489	79099	11	9°947	22°361	79173	18	24°661	24°604	79234	20	6°748	2°450	79308	9	2°364	7°825
79026	15	22°942	19°990	79100	11	10°279	22°989	79174	23	25°565	24°183	79235	13	8°142	2°032	79309	10	3°630	7°076
79027	12	23°648	19°707	79101	23	10°924	22°167	79175	35	2°040	25°966	79236	8	8°510	2°716	79310*	20	5°803	7°155
79028	10	24°204	19°454	79102	21	11°135	22°019	79176	15	8°558	25°026	79237	13	10°560	2°065	79311	8	9°739	7°912
79029	13	24°549	19°537	79103	11	11°308	22°493	79177	11	11°813	25°120	79238	12	10°653	2°193	79312	10	13°404	7°053
79030	24	1°963	20°917	79104	23	11°462	22°220	79178	11	12°091	25°611	79239	8	10°772	2°749	79313	9	16°883	7°732
79031	14	4°354	20°812	79105	11	11°975	22°744	79179	14	13°587	25°396	79240	9	13°255	2°944	79314	11	19°352	7°010
79032	15	4°993	20°937	79106	13	12°844	22°214	79180	14	13°673	25°685	79241	10	14°343	2°590	79315	8	19°930	7°517
79033	12	7°259	20°070	79107	14	13°425	22°999	79181	16	13°678	25°983	79242	8	17°984	2°360	79316	9	21°615	7°538
79034	10	8°791	20°244	79108	10	13°449	22°934	79182	19	16°150	25°808	79243	8	18°078	2°051	79317	10	0°661	8°901
79035	10	9°132	20°294	79109	12	13°479	22°400	79183	22	16°159	25°825	79244	10	19°100	2°447	79318	12	1°032	8°415
79036	18	9°299	20°261	79110	21	15°203	22°426	79184	22	17°688	25°861	79245	11	21°271	2°902	79319	7	3°088	8°427
79037	10	9°533	20°201	79111	12	15°516	22°540	79185	13	19°237	25°060	79246	8	23°066	2°782	79320	8	5°240	8°432
79038	11	10°334	20°281	79112	10	15°568	22°744	79186	13	19°905	25°057	79247	9	23°716	2°290	79321	11	7°360	8°925
79039	12	10°617	20°630	79113	11	15°722	22°320	79187	17	22°446	25°886	79248	8	0°777	3°565	79322	10	8°771	8°697
79040	14	11°178	20°280	79114	14	17°917	22°548	79188	17	22°994	25°113	79249	10	6°090	3°467	79323	9	9°163	8°740
79041	13	11°719	20°041	79115	11	18°111	22°997	79189	22	23°223	25°007	79250	12	6°126	3°400	79324	8	9°335	8°039
79042	11	12°427	20°966	79116	12	18°509	22°565	79190*	35	23°348	25°909	79251	11	7°139	3°071	79325	11	11°199	8°257
79043	12	12°758	20°027	79117	12	20°788	22°259					79252	18	7°552	3°049	79326	10	12°100	8°463
79044	13	13°846	20°062	79118	13	21°809	22°414					79253	10	8°288	3°414	79327*	40	13°590	8°914
79045	11	14°080	20°762	79119	20	22°493	22°975					79254	10	8°767	3°767	79328*	14	16°637	8°588
79046	10	14°327	20°531	79120	11	23°095	22°240					79255	8	8°936	3°016	79329	10	17°081	8°956
79047	10	15°125	20°712	79121*	24	23°433	22°981					79256	11	12°696	3°993	79330	11	19°023	8°418
79048	13	15°866	20°783	79122	13	23°790	22°993					79257	8	13°001	3°957	79331	9	22°631	8°007
79049	11	18°280	20°739	79123	15	24°935	22°582					79258	8	18°539	3°640	79332	7	23°214	8°142
79050	14	20°012	20°015	79124	22	25°416	22°533					79259	7	18°633	3°436	79333	8	25°855	8°140
79051	15	21°919	20°708	79125	28	0°829	23°123					79260	17	19°238	3°510	79334	11	1°852	9°378
79052	10	23°785	20°341	79126	22	1°484	23°174					79261	14	20°111	3°760	79335	9	4°601	9°397
79053	11	24°249	20°868	79127	24	2°614	23°074					79262*	21	22°132	3°073	79336	18	7°401	9°179
79054	12	24°422	20°562	79128	23	3°405	23°030					79263	9	22°896	3°411	79337	11	7°717	9°293
79055	15	25°438	20°396	79129	21	3°418	23°009					79264	16	23°577	3°580	79338	9	9°356	9°607
79056	23	0°181	21°923	79130	15	6°177	23°550					79265*	21	3°588	4°117	79339	13	9°944	9°460
79057	23	1°233	21°932	79131	22	6°421	23°358					79266	12	5°931	4°157	79340	11	14°518	9°005
79058	22	3°407	21°556	79132	13	8°687	23°552					79267	8	7°482	4°934	79341	8	16°004	9°738
79059	15	3°561	21°399	79133	12	9°542	23°729					79268*	22	7°751	4°348	79342	9	16°399	9°656
79060	11	4°812	21°532	79134	20	9°549	23°450					79269	8	9°582	4°554	79343	10	17°639	9°902
79061	15	5°372	21°876	79135	22	9°561	23°876					79270	11	11°138	4°859	79344	10	18°110	9°327
79062	20	6°696	21°815	79136	17	10°662	23°567					79271	9	11°250	4°056	79345	9	18°412	9°363
79063	17	7°191	21°689	79137	11	11°087	23°113					79272	10	11°269	4°228	79346	12	19°300	9°709
79064	12	7°647	21°038	79138	12	12°078	23°195					79273	11	13°096	4°650	79347	20	23°571	9°230
79065	10	10°688	21°440	79139	14	13°078	23°833					79274	14	13°167	4°466	79348	13	24°672	9°758
79066	12	11°572	21°959	79140*	38	13°094													

79358	8	11°027	10°696	79432	9	2°805	16°697	79506	9	24°336	20°777	79580*	20	15°133	25°657	79641	11	20°393	2°045
79359	19	12°991	10°105	79433	10	2°877	16°511	79507	9	1°248	21°284	79581	14	15°217	25°900	79642	12	22°047	2°936
79360	9	13°456	10°083	79434*	22	3°944	16°665	79508	8	2°061	21°116	79582	8	16°116	25°381	79643	11	5°036	3°228
79361	11	20°372	10°841	79435	7	4°369	16°936	79509	13	5°757	21°644	79583	10	17°724	25°080	79644	10	5°502	3°084
79362	9	22°692	10°628	79436	8	6°186	16°895	79510	9	7°468	21°770	79584	12	18°590	25°286	79645	8	7°394	3°805
79363	8	24°982	10°424	79437	8	7°184	16°718	79511	10	8°792	21°435	79585	8	19°397	25°739	79646	12	7°690	3°443
79364	18	25°540	10°628	79438	7	12°755	16°233	79512*	22	9°776	21°021	79586	19	20°892	25°065	79647	15	8°805	3°459
79365	8	0°294	11°316	79439	9	14°049	16°277	79513	9	12°291	21°493	79587	8	22°903	25°680	79648	10	8°888	3°692
79366	14	4°364	11°521	79440	8	16°855	16°695	79514	10	13°600	21°110	79588	9	23°421	25°633	79649	12	8°891	3°805
79367	10	6°595	11°607	79441*	19	19°138	16°980	79515	19	15°326	21°269	79589	9	24°763	25°969	79650	6	8°977	3°634
79368	10	7°102	11°728	79442	7	20°970	16°928	79516	19	16°021	21°152	79590	9	24°905	25°025	79651	11	11°776	3°456
79369	9	8°495	11°331	79443	8	22°089	16°187	79517	7	17°905	21°021					79652	5	11°877	3°035
79370	7	8°524	11°696	79444	14	22°251	16°677	79518	11	19°548	21°262					79653	12	12°066	3°337
79371	8	10°382	11°870	79445	8	22°960	16°350	79519	9	20°989	21°165					79654	11	12°284	3°047
79372*	20	12°942	11°812	79446	9	23°990	16°130	79520	13	22°020	21°332					79655	21	13°455	3°298
79373	11	15°705	11°032	79447	18	0°187	17°532	79521	13	22°198	21°227					79656	15	14°587	3°568
79374	19	17°023	11°213	79448	13	1°021	17°621	79522	8	23°291	21°751					79657	10	20°361	3°133
79375	8	17°725	11°571	79449	8	3°342	17°099	79523	10	23°479	21°541					79658	27	1°346	4°078
79376	12	19°796	11°427	79450	9	3°834	17°673	79524*	21	1°786	22°713					79659	10	6°648	4°604
79377	9	21°615	11°204	79451	15	4°171	17°690	79525	10	2°145	22°723					79660	14	6°736	4°623
79378	10	21°700	11°704	79452	10	4°450	17°827	79526	8	2°970	22°912					79661	17	6°793	4°114
79379	9	24°121	11°044	79453	7	5°616	17°691	79527	13	3°775	22°230					79662	10	8°906	4°803
79380	14	1°611	12°105	79454	8	7°139	17°650	79528	10	4°903	22°603					79663	8	9°189	4°324
79381	12	2°016	12°253	79455*	21	10°744	17°263	79529	10	5°226	22°089					79664	12	9°980	4°896
79382	10	3°979	12°630	79456	8	11°601	17°245	79530	9	6°735	22°193					79665	11	11°237	4°894
79383	9	3°984	12°463	79457	15	16°370	17°957	79531	9	8°581	22°423					79666	13	11°727	4°105
79384	11	5°245	12°316	79458	8	18°728	17°579	79532	8	11°478	22°386					79667	11	14°356	4°121
79385	8	6°414	12°740	79459	9	21°145	17°650	79533	9	13°160	22°427					79668	13	15°737	4°207
79386	10	8°250	12°335	79460	9	25°692	17°663	79534	17	14°779	22°938					79669	15	17°317	4°536
79387	8	9°745	12°360	79461*	26	25°845	17°120	79535	9	16°658	22°508					79670	20	17°783	4°865
79388	14	10°299	12°134	79462	10	25°997	17°700	79536	13	20°939	22°955					79671	6	19°369	4°277
79389	12	10°675	12°266	79463	8	5°869	18°715	79537	9	21°175	22°113					79672	20	20°336	4°786
79390	9	11°699	12°145	79464	11	7°416	18°710	79538	20	23°701	22°674					79673	12	21°237	4°769
79391	15	19°116	12°109	79465*	21	9°379	18°863	79539	9	24°048	22°221					79674	16	22°127	4°494
79392	9	19°191	12°569	79466	9	11°546	18°567	79540	10	3°958	23°884					79675	9	22°326	4°534
79393	10	24°489	12°847	79467	8	13°803	18°333	79541*	30	4°962	23°657					79676	15	23°296	4°362
79394	21	0°459	13°812	79468	9	14°607	18°737	79542	13	6°966	23°001					79677	25	3°045	5°923
79395	8	0°663	13°944	79469	8	15°944	18°004	79543	9	10°694	23°798					79678	19	5°104	5°446
79396	8	1°213	13°761	79470	9	15°978	18°191	79544	11	11°283	23°234					79679	23	6°659	5°014
79397	7	1°279	13°829	79471	10	16°131	18°301	79545	12	11°306	23°150					79680	10	8°151	5°737
79398	15	3°595	13°112	79472	11	20°133	18°766	79546	8	11°719	23°844					79681	9	9°682	5°651
79399	8	5°699	13°641	79473	11	21°311	18°524	79547	10	12°894	23°101					79682	7	10°656	5°353
79400	10	7°311	13°784	79474	9	23°302	18°420	79548	11	13°866	23°048					79683	13	10°981	5°406
79401	18	7°418	13°320	79475	16	24°871	18°979	79549	10	15°781	23°039					79684	15	12°273	5°843
79402	10	7°515	13°752	79476	11	25°160	18°447	79550	10	17°375	23°901					79685	8	14°044	5°993
79403	9	9°530	13°853	79477	7	1°943	19°410	79551	7	18°436	23°223					79686	10	20°027	5°278
79404	12	14°147	13°454	79478*	20	5°073	19°563	79552	8	19°442	23°682					79687	21	20°199	5°353
79405	8	17°180	13°593	79479	8	7°763	19°144	79553*	20	20°549	23°936					79688	20	23°188	5°994
79406	13	21°242	13°270	79480	10	15°624	19°493	79554	13	21°460	23°897					79689	9	2°180	6°518
79407	12	22°525	13°908	79481	9	15°742	19°341	79555	10	24°538	23°399					79690*	26	3°308	6°587
79408	11	22°900	13°047	79482	12	16°551	19°641	79556	10	1°610	24°762					79691*	23	3°418	6°649
79409	11	25°825	13°388	79483	8	16°944	19°030	79557	8	3°056	24°326					79692	19	4°873	6°135
79410	8	25°892	13°064	79484	12	17°015	19°065	79558	12	4°645	24°514					79693	12	5°298	6°627
79411	9	2°920	14°751	79485	7	17°284	19°800	79559	11	6°047	24°979					79694	7	6°191	6°238
79412	8	8°384	14°723	79486	8	18°073	19°693	79560	9	10°385	24°214					79695	13	6°313	6°064
79413	11	8°528	14°986	79487	9	18°151	19°745	79561	12	12°269	24°355					79696	9	8°900	6°884
79414	8	11°915	14°379	79488	10	19°362	19°201	79562	8	14°243	24°772					79697	11	9°027	6°876
79415	9	12°370	14°177	79489*	17	20°075	19°580	79563	8	14°710	24°238					79698	16	9°238	6°587
79416	10	20°362	14°335	79490	9	22°991	19°592	79564	11	14°839	24°025					79699	12	9°314	6°368
79417	9	24°973	14°283	79491	10	23°410	19°871	79565	9	17°863	24°789					79700	8	9°778	6°117
79418	13	25°169	14°310	79492	9	23°946	19°487	79566	10	18°256	24°079					79701	14	12°688	6°128
79419	8	6°074	15°252	79493	15	8°684	20°579	79567	9	18°511	24°728					79702*	30	14°649	6°481
79420	11	9°039	15°560	79494	10	9°517	20°833	79568	22	21°172	24°248					79703	9	16°498	6°877
79421	9	12°566	15°179	79495	7	11°249	20°577	79569	14	21°565	24°690					79704	19	17°464	6°688
79422	9	16°271	15°775	79496	8	11°250	20°222	79570	17	24°202	24°391					79705	9	25°413	6°904
79423	8	17°203	15°397	79497	8	11°878	20°185	79571*	30	1°752	25°670					79706	12	0°099	7°265
79424*	20	20°449	15°798	79498	11	13°340	20°328	79572	12	4°188	25°809					79707	10	1°103	7°067
79425	9	20°555	15°498	79499	9	13°644	20°199	79573	9	6°913	25°339					79708	12	1°998	7°289
79426	8	20°788	15°392	79500	7	13°882	20°780	79574	9	9°200	25°162					79709	10	4°203	7°645

79715	17	8.642	7.926	79789	12	1.987	11.535	79863	15	10.401	15.357	79937	13	5.917	19.746	80011	26	2.247	24.888
79716	14	8.660	7.931	79790	27	3.403	11.104	79864	14	12.068	15.399	79938	11	6.576	19.693	80012	26	4.463	24.855
79717	7	11.467	7.392	79791	8	5.966	11.095	79865	13	13.555	15.922	79939	10	6.900	19.625	80013	11	10.071	24.960
79718	10	12.462	7.534	79792	9	6.525	11.827	79866	8	14.704	15.217	79940*	30	7.134	19.045	80014	14	10.242	24.823
79719	8	14.730	7.113	79793	11	7.720	11.173	79867	23	16.866	15.694	79941*	21	8.887	19.653	80015	11	10.408	24.874
79720	12	17.008	7.153	79794	10	8.412	11.779	79868	9	18.021	15.699	79942	19	9.022	19.701	80016	10	11.390	24.285
79721	8	19.968	7.025	79795	11	9.203	11.178	79869	14	19.237	15.796	79943	10	10.210	19.422	80017	11	11.526	24.676
79722	9	21.332	7.154	79796*	27	12.073	11.062	79870	10	19.379	15.600	79944	10	16.487	19.124	80018	12	12.269	24.632
79723	9	21.988	7.237	79797	10	12.844	11.344	79871	16	21.276	15.234	79945	11	19.190	19.499	80019	10	13.250	24.259
79724	12	23.512	7.041	79798	10	12.977	11.013	79872	13	23.916	15.477	79946	10	19.568	19.714	80020	11	13.536	24.474
79725	18	23.994	7.375	79799	8	13.295	11.076	79873	15	0.025	16.708	79947	17	19.976	19.831	80021*	40	13.934	24.971
79726	10	24.000	7.884	79800	8	13.448	11.805	79874	8	0.804	16.858	79948	10	20.445	19.110	80022	11	15.323	24.607
79727	11	0.458	8.519	79801	10	16.400	11.456	79875	12	1.922	16.627	79949	12	0.969	20.101	80023	12	16.579	24.455
79728	8	1.041	8.641	79802	17	16.729	11.332	79876	9	2.283	16.905	79950	20	1.393	20.373	80024	8	17.120	24.433
79729	9	3.682	8.613	79803	12	17.310	11.940	79877	13	4.475	16.476	79951	17	5.695	20.117	80025	14	20.394	24.049
79730	11	4.326	8.056	79804	11	21.149	11.353	79878	9	5.894	16.354	79952	10	6.838	20.083	80026	12	20.989	24.607
79731	10	4.515	8.226	79805	8	22.208	11.566	79879	16	6.382	16.166	79953	21	8.322	20.886	80027	15	22.438	24.049
79732	12	4.526	8.896	79806	9	23.039	11.293	79880*	44	7.220	16.446	79954	11	9.055	20.286	80028	14	2.955	25.513
79733	10	4.695	8.967	79807	10	23.472	11.145	79881	15	7.365	16.974	79955	10	9.477	20.551	80029	13	4.084	25.205
79734	17	5.253	8.672	79808	8	4.415	12.264	79882	14	8.382	16.264	79956	9	12.124	20.579	80030	12	6.353	25.487
79735	12	5.458	8.855	79809	11	4.669	12.840	79883	22	8.649	16.043	79957	13	12.628	20.152	80031	16	8.152	25.221
79736	19	7.713	8.468	79810	10	7.262	12.440	79884	8	9.205	16.521	79958	10	12.756	20.247	80032	11	12.473	25.560
79737	18	8.526	8.665	79811	11	8.845	12.985	79885	17	9.838	16.186	79959*	17	12.931	20.784	80033	14	13.994	25.302
79738	10	11.117	8.192	79812	12	9.428	12.200	79886	9	10.144	16.549	79960	11	14.855	20.405	80034	10	16.084	25.041
79739	11	11.576	8.555	79813	9	10.361	12.435	79887	20	11.493	16.038	79961	12	16.531	20.677	80035	10	16.116	25.025
79740	12	17.101	8.334	79814	11	10.519	12.974	79888	14	11.496	16.768	79962	12	17.164	20.470	80036	24	18.468	25.853
79741	7	17.505	8.077	79815	11	10.844	12.509	79889	17	12.702	16.081	79963	15	18.078	20.065	80037	11	19.450	25.668
79742	13	18.694	8.827	79816	19	15.195	12.352	79890	21	15.889	16.677	79964	10	18.478	20.513	80038	24	24.887	25.399
79743	10	18.766	8.570	79817*	30	18.064	12.342	79891	13	16.276	16.501	79965	21	21.657	20.848				
79744	19	20.133	8.578	79818	10	18.487	12.646	79892	13	20.062	16.990	79966	10	25.863	20.342				
79745	29	1.417	9.727	79819	12	23.225	12.834	79893	12	20.143	16.286	79967	21	0.021	21.856				
79746	14	3.198	9.834	79820	8	23.367	12.809	79894	11	21.164	16.154	79968	19	0.197	21.749				
79747	10	4.789	9.539	79821	12	23.832	12.989	79895	16	21.263	16.513	79969	21	2.145	21.057				
79748	8	5.204	9.149	79822	20	0.796	13.554	79896	27	0.194	17.195	79970	12	2.334	21.269				
79749	9	5.893	9.424	79823	13	2.381	13.336	79897*	34	3.788	17.592	79971*	20	5.377	21.382				
79750	11	6.058	9.747	79824	14	3.725	13.857	79898	13	4.181	17.495	79972	8	7.345	21.148				
79751	12	6.386	9.805	79825	11	3.787	13.535	79899	14	4.369	17.717	79973	13	10.239	21.845				
79752	12	8.026	9.998	79826	7	4.644	13.354	79900	8	10.601	17.904	79974	10	11.194	21.896				
79753	21	8.520	9.688	79827	8	6.047	13.844	79901*	36	11.078	17.694	79975	8	12.006	21.397				
79754	8	11.034	9.505	79828	11	6.876	13.736	79902	22	11.232	17.308	79976	12	15.782	21.218				
79755	12	12.699	9.567	79829	10	7.320	13.744	79903	11	11.815	17.485	79977	10	16.232	21.687				
79756	13	15.277	9.615	79830	21	7.319	13.066	79904	14	12.764	17.992	79978	16	16.818	21.839				
79757	17	15.454	9.027	79831	12	9.076	13.289	79905	11	13.713	17.864	79979	10	19.499	21.791				
79758	11	18.319	9.944	79832	10	13.947	13.696	79906	18	18.850	17.087	79980	14	20.640	21.085				
79759	9	18.395	9.193	79833	8	19.433	13.489	79907	14	19.530	17.140	79981	13	24.384	21.289				
79760	14	18.768	9.315	79834	11	20.484	13.534	79908	14	21.136	17.463	79982	14	1.482	22.043				
79761	16	18.829	9.112	79835	10	23.327	13.659	79909	20	21.242	17.378	79983	15	2.060	22.717				
79762	8	19.911	9.885	79836	12	23.849	13.458	79910	15	22.079	17.183	79984	21	5.326	22.573				
79763	10	20.190	9.685	79837	16	24.380	13.725	79911	12	24.646	17.746	79985	12	6.629	22.625				
79764	25	20.588	9.696	79838	20	0.429	14.421	79912	16	25.230	17.395	79986	20	7.767	22.030				
79765	9	22.461	9.266	79839	12	2.886	14.765	79913	16	1.264	18.925	79987	12	12.854	22.408				
79766	28	23.145	9.417	79840	20	3.079	14.788	79914	10	2.850	18.363	79988	10	14.292	22.950				
79767	18	2.525	10.244	79841	9	4.652	14.282	79915	17	3.124	18.928	79989	11	15.293	22.877				
79768	9	2.838	10.905	79842	9	6.514	14.359	79916	10	3.498	18.735	79990	13	21.594	22.491				
79769	18	5.085	10.417	79843*	31	7.159	14.108	79917	10	3.508	18.151	79991	33	1.718	23.175				
79770	19	6.748	10.297	79844	13	8.059	14.865	79918	14	3.647	18.136	79992	16	2.564	23.890				
79771	10	6.913	10.623	79845	8	8.176	14.594	79919	16	3.949	18.167	79993	11	3.556	23.130				
79772	14	7.228	10.815	79846	9	8.642	14.574	79920*	25	5.788	18.268	79994	10	6.886	23.568				
79773	13	7.318	10.398	79847	16	9.702	14.952	79921	14	10.023	18.782	79995	11	10.141	23.464				
79774	8	8.514	10.954	79848	13	9.874	14.629	79922	10	10.330	18.114	79996	12	10.941	23.135				
79775	13	8.541	10.512	79849	11	10.205	14.214	79923	11	11.021	18.513	79997	11	11.229	23.221				
79776	16	8.705	10.695	79850	12	10.918	14.602	79924	9	11.155	18.423	79998	10	12.114	23.018				
79777	16	9.794	10.424	79851	10	10.994	14.502	79925*	29	12.661	18.830	79999	11	12.756	23.734				
79778	8	9.896	10.165	79852	8	11.854	14.789	79926	10	13.137	18.339	80000	11	12.958	23.333				
79779	9	11.064	10.364	79853	14	12.740	14.844	79927	10	15.595	18.701	80001	11	13.518	23.769				
79780	20	11.165	10.411	79854	12	13.727	14.729	79928	14	16.908	18.372	80002	10	14.163	23.027				
79781	19	13.814	10.718	79855	15	24.229	14.228	79929	10	19.972	18.665	80003	11						

80125	8	16.491	1.632	80199	10	15.621	9.200	80273	6	5.620	17.081	80347	10	9.580	22.752	80403	18	3.902	0.074
80126	17	19.863	1.602	80200	9	16.143	9.151	80274*	17	6.046	17.747	80348	7	12.019	22.847	80404	17	3.946	0.076
80127*	23	24.872	1.690	80201	8	16.500	9.337	80275	9	7.151	17.859	80349	11	14.777	22.700	80405	12	5.069	0.993
80128	14	8.653	2.385	80202	9	17.702	9.395	80276	7	8.279	17.982	80350	10	15.154	22.522	80406	11	6.067	0.874
80129	8	10.348	2.435	80203	20	20.500	9.267	80277	8	8.537	17.753	80351	11	15.796	22.198	80407	7	10.034	0.733
80130*	21	10.907	2.372	80204	7	21.857	9.466	80278	12	15.614	17.249	80352	8	16.018	22.343	80408	10	11.152	0.959
80131*	27	13.399	2.729	80205	8	24.534	9.315	80279	8	17.595	17.952	80353	9	17.282	22.369	80409	11	11.561	0.157
80132	12	19.830	2.849	80206	9	1.553	10.925	80280	10	18.156	17.064	80354	10	17.974	22.750	80410	13	11.837	0.803
80133	23	22.364	2.467	80207	12	3.289	10.857	80281	9	19.799	17.267	80355	9	19.628	22.779	80411	8	12.034	0.377
80134	11	23.625	2.548	80208	8	3.971	10.824	80282*	21	20.857	17.058	80356	11	21.743	22.442	80412*	46	13.383	0.538
80135	20	4.228	3.293	80209	11	14.355	10.681	80283	13	21.133	17.729	80357	8	22.391	22.079	80413	18	22.864	0.164
80136	9	5.680	3.467	80210	9	18.614	10.879	80284	9	21.795	17.868	80358	9	24.957	22.895	80414*	24	2.917	1.603
80137	10	9.077	3.268	80211	9	22.880	10.382	80285*	20	23.085	17.817	80359	11	25.665	22.234	80415	17	4.503	1.804
80138	7	16.148	3.834	80212	6	1.786	11.194	80286	7	24.456	17.942	80360	19	25.746	22.720	80416	14	8.348	1.817
80139	13	19.889	3.844	80213*	13	4.753	11.177	80287	14	24.914	17.514	80361	9	3.034	23.249	80417	23	11.315	1.979
80140	9	20.366	3.161	80214	9	5.626	11.421	80288	10	25.936	17.721	80362	10	4.410	23.813	80418	8	13.604	1.218
80141	19	20.423	3.158	80215	8	9.833	11.382	80289	10	0.972	18.173	80363	9	5.008	23.969	80419	8	13.878	1.369
80142	8	22.211	3.203	80216	13	13.662	11.978	80290	11	1.438	18.922	80364	10	5.653	23.893	80420	12	14.778	1.739
80143	8	22.304	3.198	80217	14	16.818	11.866	80291*	16	4.633	18.279	80365	8	9.210	23.463	80421	7	20.179	1.521
80144	7	22.613	3.272	80218*	13	19.099	11.383	80292	8	4.715	18.783	80366	8	9.668	23.861	80422	31	0.397	2.409
80145	8	23.257	3.551	80219	7	19.527	11.075	80293	7	8.496	18.762	80367	16	10.327	23.050	80423	12	1.669	2.477
80146	18	25.962	3.819	80220	9	24.630	11.844	80294	9	10.756	18.712	80368	8	10.669	23.848	80424	9	10.757	2.307
80147	11	0.327	4.622	80221	8	1.573	12.876	80295	11	11.715	18.261	80369*	21	13.345	23.199	80425*	53	14.555	2.122
80148	10	1.485	4.469	80222	9	7.800	12.111	80296	9	12.345	18.070	80370	9	14.751	23.748	80426	22	20.781	2.136
80149	21	5.182	4.935	80223	9	11.497	12.632	80297	9	12.577	18.227	80371	10	14.844	23.963	80427	19	21.868	2.772
80150	8	7.396	4.348	80224	8	1.688	13.690	80298	9	20.543	18.932	80372	9	19.964	23.746	80428	8	0.251	3.154
80151	9	8.827	4.261	80225	9	2.176	13.015	80299	9	22.038	18.411	80373	8	22.832	23.463	80429	9	1.307	3.493
80152	8	17.609	4.499	80226	10	2.204	13.479	80300	10	25.777	18.157	80374	16	23.066	23.941	80430	22	4.036	3.735
80153	9	18.247	4.651	80227	10	2.734	13.738	80301	8	5.078	19.768	80375	10	24.706	23.396	80431	7	4.514	3.214
80154	20	22.661	4.428	80228	12	10.496	13.739	80302	9	5.496	19.869	80376	11	0.998	24.014	80432	8	5.926	3.490
80155	9	24.652	4.346	80229	10	10.585	13.804	80303	6	6.298	19.892	80377	10	12.003	24.677	80433	12	6.580	3.628
80156	8	6.166	5.836	80230	20	10.789	13.396	80304	7	6.507	19.696	80378	11	22.507	24.709	80434	10	9.315	3.929
80157	7	7.084	5.548	80231	13	13.913	13.822	80305	8	8.333	19.092	80379*	35	23.711	24.498	80435	10	13.379	3.750
80158	17	17.909	5.842	80232	9	19.037	13.099	80306*	21	8.739	19.987	80380	12	24.700	24.181	80436	19	18.708	3.889
80159*	21	18.740	5.565	80233	8	19.546	13.398	80307	14	9.557	19.680	80381	17	25.636	24.917	80437	8	19.079	3.127
80160	10	24.313	5.769	80234	16	20.178	13.997	80308	12	14.900	19.977	80382	9	0.622	25.355	80438	12	19.990	3.136
80161	9	25.612	5.770	80235	8	21.602	13.384	80309	10	16.931	19.356	80383	10	1.583	25.228	80439	17	25.444	3.996
80162	14	25.964	5.099	80236	8	22.479	13.149	80310	20	20.541	19.319	80384	9	1.957	25.942	80440	28	0.714	4.382
80163	13	1.409	6.091	80237	10	2.594	14.236	80311	8	21.055	19.028	80385	11	3.460	25.308	80441	10	2.726	4.280
80164	7	3.631	6.954	80238	11	6.002	14.438	80312	8	21.118	19.675	80386	10	4.198	25.411	80442	11	7.351	4.449
80165	8	4.444	6.852	80239	9	7.136	14.418	80313	7	22.874	19.680	80387	8	4.279	25.479	80443	12	11.294	4.029
80166	9	11.702	6.441	80240	10	9.955	14.585	80314	9	23.754	19.872	80388	11	4.600	25.039	80444	10	12.260	4.055
80167	10	12.554	6.060	80241	11	11.484	14.020	80315	12	23.920	19.439	80389	21	9.580	25.988	80445	9	16.431	4.321
80168	7	12.586	6.069	80242	10	18.355	14.204	80316	14	0.166	20.852	80390	8	12.607	25.672	80446	11	18.714	4.473
80169	10	21.232	6.683	80243	8	19.687	14.053	80317	9	4.332	20.274	80391	10	13.202	25.384	80447	11	18.820	4.070
80170	8	21.287	6.735	80244	9	20.626	14.905	80318	10	4.667	20.695	80392	11	13.949	25.369	80448	11	25.277	4.857
80171	9	1.750	7.123	80245*	28	20.888	14.208	80319	9	4.728	20.079	80393	10	19.733	25.100	80449	10	2.391	5.721
80172	9	2.221	7.016	80246	13	21.831	14.251	80320	9	6.386	20.628	80394	10	21.677	25.921	80450	11	3.532	5.132
80173	11	2.232	7.447	80247	10	22.064	14.893	80321	7	7.900	20.264	80395	9	22.998	25.073	80451	10	3.704	5.706
80174	9	2.249	7.948	80248	8	22.328	14.765	80322	10	8.583	20.986	80396	15	23.052	25.430	80452	20	4.051	5.028
80175	10	5.671	7.070	80249	9	2.306	15.482	80323	11	9.113	20.871	80397	11	23.052	25.582	80453	11	5.598	5.853
80176	7	7.580	7.547	80250*	16	7.695	15.675	80324	8	11.850	20.719					80454	12	6.494	5.671
80177	8	13.061	7.906	80251*	17	7.822	15.928	80325	7	16.462	20.743					80455	11	13.701	5.841
80178	10	14.340	7.297	80252*	12	13.250	15.624	80326*	21	18.057	20.781					80456	12	18.309	5.028
80179	11	16.148	7.831	80253	13	17.308	15.171	80327	8	19.833	20.254					80457	11	21.918	5.191
80180	10	16.738	7.923	80254	10	17.533	15.661	80328	10	22.858	20.327					80458	11	23.302	5.890
80181	10	19.586	7.251	80255	9	17.893	15.887	80329	11	23.784	20.588					80459	10	24.241	5.630
80182	10	19.865	7.934	80256	9	19.615	15.124	80330	10	23.789	20.889					80460	11	25.290	5.989
80183	8	20.037	7.262	80257	10	20.065	15.281	80331	8	2.877	21.239					80461	8	4.181	6.650
80184*	24	20.199	7.856	80258	13	24.091	15.614	80332	9	3.604	21.498					80462	11	6.520	6.044
80185	8	20.479	7.822	80259	22	25.929	15.975	80333	9	7.631	21.109					80463	12	10.581	6.892
80186	9	21.292	7.297	80260	13	10.790	16.018	80334	8	9.777	21.959					80464	11	11.900	6.505
80187	14	24.213	7.877	80261	8	11.296	16.940	80335	7	11.493	21.582					80465	13	14.441	6.868
80188	10	24.384	7.282	80262	10	11.420	16.050	80336	10	11.550	21.031					80466	8	14.593	6.161
80189	12	24.933	7.912	80263	11	15.228	16.126	80337*	23	13.155	2								

80477	14	2°480	7°240	80551	20	4°119	15°989	80625	8	20°545	19°122	80699	14	11°410	24°171	80832	13	10°036	2°020
80478	13	3°038	7°873	80552	10	4°317	15°030	80626	10	21°721	19°208	80700*	20	12°106	24°058	80833	11	11°477	2°781
80479	10	4°100	7°383	80553	12	4°499	15°250	80627	12	24°402	19°960	80701	11	13°460	24°316	80834	11	11°673	2°700
80480	9	4°402	7°990	80554	9	5°354	15°275	80628	9	25°139	19°572	80702	13	16°526	24°563	80835	21	12°239	2°002
80481	9	4°943	7°344	80555	11	10°337	15°057	80629	15	1°064	20°409	80703	10	16°992	24°239	80836	13	13°554	2°459
80482	10	15°439	7°319	80556	22	13°774	15°467	80630	13	2°001	20°662	80704	12	17°308	24°251	80837	22	16°650	2°188
80483*	28	16°578	7°523	80557	9	16°877	15°403	80631	11	2°012	20°964	80705*	38	22°686	24°868	80838	13	16°684	2°786
80484*	32	17°621	7°848	80558	11	17°909	15°092	80632	20	6°805	20°072	80706	16	23°760	24°386	80839	12	18°538	2°164
80485	11	21°160	7°770	80559	11	23°431	15°603	80633*	25	7°022	20°543	80707	17	24°794	24°494	80840	13	24°763	2°059
80486	10	21°350	7°338	80560	12	0°613	16°709	80634	10	10°194	20°783	80708	18	25°045	24°388	80841	12	25°695	2°008
80487*	33	23°789	7°139	80561	10	1°201	16°258	80635	11	11°394	20°855	80709	16	1°256	25°192	80842	15	5°253	3°367
80488	12	2°539	8°449	80562	19	1°587	16°405	80636	7	11°649	20°753	80710	20	1°310	25°550	80843*	23	6°479	3°645
80489	10	5°602	8°330	80563	9	1°966	16°392	80637	8	11°884	20°892	80711	15	1°312	25°701	80844	12	7°270	3°572
80490	12	9°759	8°117	80564	11	5°988	16°554	80638	8	12°983	20°300	80712	19	3°906	25°008	80845*	22	7°858	3°023
80491	10	10°087	8°655	80565	10	6°130	16°193	80639	9	13°612	20°978	80713	13	8°809	25°495	80846	15	8°681	3°661
80492	23	10°189	8°791	80566	9	8°423	16°092	80640	19	14°088	20°428	80714	17	9°765	25°746	80847	11	8°937	3°890
80493*	23	10°307	8°380	80567	11	10°016	16°814	80641	14	16°146	20°348	80715	8	13°204	25°225	80848	14	13°061	3°972
80494	10	11°803	8°244	80568	10	10°698	16°403	80642	14	22°037	20°210	80716	14	14°181	25°732	80849	12	13°906	3°489
80495	8	19°677	8°994	80569	15	12°619	16°328	80643	20	23°082	20°780	80717	10	15°251	25°755	80850	11	14°206	3°524
80496	12	20°521	8°339	80570	20	13°925	16°222	80644	13	24°210	20°418	80718	19	16°030	25°670	80851	11	16°403	3°150
80497	8	22°638	8°434	80571	8	19°408	16°459	80645	12	24°721	20°489					80852	15	18°077	3°737
80498	19	22°781	8°666	80572	11	19°730	16°278	80646	15	0°860	21°155					80853*	52	21°124	3°730
80499	10	22°796	8°670	80573	8	20°844	16°050	80647	13	1°769	21°173					80854	24	22°142	3°101
80500	10	2°641	9°292	80574	9	21°109	16°281	80648	7	5°159	21°339					80855	19	3°416	4°315
80501	16	4°864	9°521	80575	13	22°502	16°563	80649	8	8°908	21°313					80856	12	7°910	4°875
80502	8	5°005	9°606	80576	8	23°206	16°158	80650	8	13°768	21°207					80857	12	9°037	4°879
80503	9	9°182	9°644	80577	9	25°305	16°190	80651	23	15°346	21°151					80858	10	15°399	4°621
80504	13	17°073	9°992	80578	8	25°380	16°042	80652	8	15°627	21°817					80859	13	15°526	4°398
80505	9	22°230	9°831	80579	20	25°596	16°120	80653	10	16°045	21°730					80860	12	16°690	4°450
80506	19	22°699	9°192	80580*	23	1°272	17°873	80654	23	16°110	21°717					80861	10	17°900	4°706
80507	14	25°043	9°422	80581	10	2°656	17°991	80655	28	16°561	21°550					80862	12	19°552	4°476
80508	15	0°991	10°381	80582	7	2°797	17°447	80656	17	16°905	21°889					80863	11	24°330	4°251
80509	15	9°335	10°042	80583	17	3°113	17°550	80657	22	18°871	21°973					80864	12	2°249	5°955
80510	16	12°102	10°695	80584	8	3°697	17°664	80658	13	21°401	21°486					80865	13	3°269	5°171
80511	16	19°577	10°089	80585	10	4°147	17°752	80659	8	22°178	21°509					80866	13	5°044	5°806
80512	21	19°909	10°715	80586	8	4°521	17°736	80660	13	23°706	21°908					80867	12	12°406	5°031
80513	21	25°082	10°848	80587	11	7°741	17°956	80661	18	25°775	21°354					80868	11	13°027	5°550
80514	7	1°326	11°317	80588	15	9°112	17°046	80662	9	0°612	22°176					80869	11	13°114	5°911
80515	11	2°768	11°839	80589	8	9°228	17°390	80663	14	3°208	22°974					80870	11	14°270	5°510
80516	15	4°976	11°299	80590	10	10°566	17°482	80664	15	3°913	22°302					80871	11	15°492	5°726
80517*	31	13°581	11°372	80591	11	20°251	17°705	80665	24	4°000	22°788					80872	10	16°717	5°345
80518	11	14°456	11°494	80592	20	21°802	17°189	80666	21	6°919	22°742					80873	12	17°009	5°269
80519	13	14°681	11°208	80593	10	21°932	17°017	80667	13	7°402	22°840					80874	13	18°398	5°338
80520*	69	19°044	11°974	80594	11	23°292	17°301	80668	8	8°561	22°311					80875	11	19°392	5°321
80521	10	22°557	11°096	80595	19	24°606	17°994	80669	8	12°054	22°884					80876	12	19°530	5°629
80522	17	4°976	12°688	80596	12	0°228	18°480	80670	9	15°720	22°170					80877*	25	20°169	5°775
80523	9	7°552	12°939	80597	9	2°486	18°852	80671	10	16°434	22°603					80878	11	21°301	5°679
80524*	26	8°708	12°706	80598	11	3°988	18°190	80672	15	16°511	22°550					80879	13	22°259	5°039
80525	15	12°254	12°017	80599	13	4°622	18°912	80673	13	18°251	22°687					80880	11	1°081	6°691
80526	14	13°856	12°266	80600	11	6°497	18°430	80674	12	19°098	22°126					80881	13	1°323	6°228
80527	15	14°108	12°617	80601	10	9°142	18°361	80675	14	21°819	22°363					80882	14	2°428	6°916
80528	16	15°249	12°769	80602	9	9°369	18°501	80676*	66	24°279	22°219					80883	13	3°296	6°294
80529	23	15°573	12°239	80603	12	10°894	18°240	80677	15	1°067	23°567					80884	12	4°441	6°476
80530	19	15°832	12°633	80604	14	12°963	18°744	80678	18	2°955	23°480					80885	12	8°021	6°294
80531	22	16°441	12°011	80605	8	14°477	18°207	80679	15	7°310	23°463					80886	13	8°075	6°437
80532	10	22°771	12°470	80606*	39	14°621	18°520	80680	10	8°757	23°542					80887	10	8°773	6°257
80533	9	0°614	13°173	80607	5	16°179	18°109	80681	14	12°596	23°308					80888	12	10°306	6°289
80534	8	4°349	13°454	80608	11	18°714	18°688	80682	8	13°919	23°132					80889	14	16°117	6°871
80535	7	12°870	13°755	80609	13	21°074	18°731	80683	7	14°143	23°032					80890	11	19°400	6°038
80536	11	12°942	13°810	80610	11	23°609	18°919	80684	18	18°376	23°812					80891	13	22°730	6°318
80537	8	17°387	13°211	80611	22	24°781	18°238	80685*	22	20°808	23°078					80892	12	23°313	6°851
80538	11	19°444	13°085	80612	12	1°967	19°940	80686	19	0°757	24°828					80893	21	24°185	6°020
80539	12	22°060	13°382	80613	14	2°130	19°502	80687	24	1°312	24°049					80894	26	24°411	6°685
80540	15	0°215	14°938	80614	8	5°173	19°284	80688*	4	1°966	24°602					80895	12	24°447	6°837
80541	10	0°477	14°803	80615	11	6°715	19°220	80689	16	2°962	24°272					80896	11	25°071	6°794
80542	12	6°209	14°278	80616	12	8°374	19°738	80690	14	6°145	24°250					80897	22	25°474	6°414
80543	10	7°564	14°657	80617	10	13°951	19°810	80691	15	6°713	24°353					80898*	27	1°828	7°460
80544	11	8°358	14°735	80618	12	14°080	19°214	80692	14	6°975									

80906	12	21°7'16"	7°36'8"	80980	12	15°47'1"	13°51'4"	81054	13	21°05'0"	17°06'2"	81128	10	12°37'9"	22°23'6"
80907	10	22°03'5"	7°6'42"	80981	13	17°33'0"	13°33'1"	81055	12	21°30'0"	17°6'18"	81129	10	13°15'0"	22°23'3"
80908	12	23°16'6"	7°56'4"	80982	11	17°7'46"	13°04'0"	81056	10	22°30'1"	17°44'4"	81130	12	13°9'15"	22°11'8"
80909	22	23°68'4"	7°69'5"	80983	13	18°24'4"	13°58'6"	81057*	13	24°09'2"	17°69'1"	81131*	22	14°8'09"	22°47'8"
80910	10	24°09'3"	7°55'8"	80984*	22	19°23'0"	13°8'31"	81058	12	2°8'11"	18°21'2"	81132	13	17°09'2"	22°61'6"
80911	11	24°79'4"	7°11'4"	80985	12	21°66'6"	13°57'9"	81059	13	2°99'2"	18°45'1"	81133	12	17°24'4"	22°06'1"
80912	17	0°8'53"	8°99'2"	80986	13	22°57'6"	13°68'3"	81060	22	4°88'4"	18°00'0"	81134	12	17°64'2"	22°65'7"
80913	13	5°35'7"	8°18'4"	80987	13	23°96'1"	13°30'5"	81061	13	6°57'3"	18°98'9"	81135*	25	18°20'2"	22°33'4"
80914	12	10°8'55"	8°75'0"	80988	12	6°11'0"	14°05'4"	81062	12	7°18'2"	18°55'0"	81136	10	20°27'5"	22°03'7"
80915	11	13°27'4"	8°15'7"	80989	13	7°55'4"	14°8'07"	81063	13	7°20'0"	18°24'0"	81137	13	20°28'9"	22°78'0"
80916	13	13°89'0"	8°64'0"	80990	11	8°56'1"	14°55'0"	81064	10	7°74'0"	18°39'0"	81138	13	22°69'0"	22°83'2"
80917	13	14°88'9"	8°04'4"	80991*	22	8°88'9"	14°20'1"	81065	11	8°01'7"	18°67'2"	81139	12	24°66'1"	22°37'3"
80918	12	16°48'2"	8°45'2"	80992	12	9°56'2"	14°23'2"	81066	10	11°97'9"	18°12'7"	81140*	13	5°72'6"	23°22'9"
80919	11	16°55'1"	8°31'5"	80993	14	11°86'8"	14°21'9"	81067	10	13°66'0"	18°57'2"	81141	12	6°82'0"	23°56'5"
80920	11	22°86'4"	8°62'8"	80994	10	15°27'3"	14°97'8"	81068	11	15°81'0"	18°41'2"	81142	13	6°85'9"	23°70'9"
80921	10	23°76'8"	8°75'0"	80995	13	16°09'1"	14°35'7"	81069	13	15°90'0"	18°16'1"	81143	13	7°03'0"	23°28'8"
80922	12	24°09'4"	8°17'2"	80996	12	16°64'0"	14°32'0"	81070	12	17°24'7"	18°40'1"	81144*	22	7°82'0"	23°91'1"
80923	13	25°38'0"	8°01'7"	80997	12	17°30'0"	14°89'4"	81071	13	17°79'4"	18°80'0"	81145	10	11°22'0"	23°97'6"
80924	13	0°77'9"	9°51'4"	80998	13	18°14'0"	14°50'7"	81072*	22	19°26'1"	18°69'3"	81146	11	11°52'9"	23°12'8"
80925	12	3°10'6"	9°70'4"	80999*	28	18°86'3"	14°29'0"	81073	13	20°97'1"	18°99'5"	81147	11	13°14'2"	23°52'6"
80926	13	10°59'8"	9°66'9"	81000*	46	19°59'6"	14°54'0"	81074	12	24°77'0"	18°16'3"	81148	14	13°31'3"	23°98'9"
80927	11	10°88'9"	9°94'6"	81001	10	20°23'1"	14°30'0"	81075	12	24°98'3"	18°95'0"	81149	10	17°11'9"	23°02'8"
80928	10	15°17'8"	9°57'0"	81002	12	22°19'8"	14°53'2"	81076	13	1°83'8"	19°14'6"	81150	13	19°80'7"	23°15'4"
80929	13	15°58'4"	9°48'1"	81003	13	22°34'8"	14°42'9"	81077	13	3°36'9"	19°77'0"	81151*	23	20°11'7"	23°87'6"
80930	21	18°01'8"	9°08'9"	81004	17	23°14'6"	14°39'1"	81078	12	5°54'0"	19°96'5"	81152	13	21°42'9"	23°25'1"
80931	13	18°14'6"	9°31'1"	81005	12	23°35'9"	14°67'2"	81079	13	6°51'0"	19°88'3"	81153	11	24°29'9"	23°31'6"
80932	12	21°96'0"	9°37'6"	81006	13	23°53'4"	14°37'7"	81080	12	6°53'9"	19°71'9"	81154	11	2°03'2"	24°84'1"
80933	13	23°16'4"	9°63'7"	81007	14	24°21'9"	14°97'1"	81081	11	7°22'5"	19°34'7"	81155	20	2°07'5"	24°56'8"
80934	12	4°86'7"	10°59'2"	81008	11	24°40'0"	14°01'6"	81082	10	7°85'0"	19°94'0"	81156	22	3°10'1"	24°65'9"
80935*	29	7°94'7"	10°96'2"	81009	10	24°61'3"	14°71'0"	81083*	32	10°09'5"	19°23'9"	81157	22	3°35'0"	24°54'5"
80936	13	8°45'7"	10°48'0"	81010	11	24°62'2"	14°08'1"	81084	11	11°22'2"	19°74'4"	81158	11	6°01'1"	24°67'3"
80937	13	13°24'7"	10°69'0"	81011	12	1°60'5"	15°85'9"	81085	13	23°87'4"	19°26'9"	81159	13	6°85'0"	24°20'0"
80938	10	17°05'3"	10°51'3"	81012	13	5°72'5"	15°86'4"	81086	12	0°29'9"	20°45'2"	81160	21	6°86'4"	24°88'3"
80939	11	20°62'7"	10°69'2"	81013	10	6°53'9"	15°54'0"	81087	11	2°45'7"	20°62'1"	81161*	47	7°05'6"	24°83'9"
80940	12	24°76'0"	10°57'5"	81014	13	6°85'5"	15°65'4"	81088	13	2°64'4"	20°16'7"	81162	13	8°27'5"	24°36'0"
80941	11	0°66'8"	11°40'1"	81015	11	7°33'0"	15°54'0"	81089	12	2°97'1"	20°68'7"	81163	10	9°59'1"	24°21'3"
80942	11	2°23'0"	11°88'0"	81016	11	7°92'4"	15°72'8"	81090	11	4°81'2"	20°50'0"	81164	13	10°66'4"	24°15'5"
80943	22	3°16'7"	11°11'5"	81017	13	10°07'5"	15°15'8"	81091	10	4°82'0"	20°06'0"	81165	10	10°87'1"	24°56'9"
80944	13	5°15'0"	11°35'0"	81018	13	12°71'3"	15°56'3"	81092	12	7°36'9"	20°46'9"	81166	10	11°25'7"	24°15'0"
80945	12	6°66'6"	11°69'7"	81019	12	14°30'3"	15°58'4"	81093	13	8°87'4"	20°04'4"	81167	13	13°56'0"	24°53'4"
80946	12	10°13'0"	11°30'0"	81020	13	19°58'1"	15°58'8"	81094	10	12°68'0"	20°15'9"	81168	11	15°59'0"	24°82'6"
80947	12	13°02'2"	11°65'0"	81021*	22	23°68'8"	15°10'4"	81095	12	13°23'8"	20°22'0"	81169	13	19°89'7"	24°31'8"
80948	15	13°22'5"	11°11'1"	81022	10	25°48'9"	15°96'5"	81096	12	13°38'2"	20°44'3"	81170	12	20°17'1"	24°00'7"
80949*	42	15°83'2"	11°96'9"	81023	10	25°60'0"	15°26'1"	81097*	17	13°60'7"	20°66'1"	81171	13	20°50'8"	24°07'1"
80950	22	16°50'3"	11°74'2"	81024	13	0°70'0"	16°82'8"	81098	11	17°58'0"	20°90'2"	81172	11	21°99'6"	24°44'0"
80951	10	19°85'6"	11°69'2"	81025	11	1°39'5"	16°41'2"	81099	10	19°15'1"	20°25'0"	81173	13	22°59'0"	24°51'4"
80952	10	20°63'3"	11°72'2"	81026	12	3°47'9"	16°41'0"	81100*	32	22°38'2"	20°96'0"	81174	14	22°88'5"	24°56'0"
80953	13	20°76'5"	11°60'9"	81027	11	3°54'5"	16°26'8"	81101	12	22°69'0"	20°67'0"	81175*	22	25°15'1"	24°05'6"
80954	12	22°56'3"	11°01'8"	81028	13	3°76'1"	16°33'7"	81102	13	23°09'7"	20°24'0"	81176*	18	25°27'9"	24°23'9"
80955	13	25°72'2"	11°39'1"	81029	10	6°92'9"	16°74'9"	81103	12	24°55'8"	20°23'0"	81177	22	25°84'4"	24°12'7"
80956	10	0°90'0"	12°76'4"	81030	13	7°35'9"	16°38'0"	81104	10	25°08'5"	20°90'6"	81178*	40	1°01'5"	25°06'4"
80957	22	5°83'2"	12°33'0"	81031	12	8°70'6"	16°09'1"	81105	12	0°45'9"	21°73'8"	81179	22	4°33'0"	25°07'0"
80958	11	7°44'2"	12°24'0"	81032	11	10°03'0"	16°46'2"	81106	20	1°34'6"	21°00'0"	81180	22	5°82'5"	25°13'3"
80959	12	9°44'2"	12°43'2"	81033	11	10°38'1"	16°85'4"	81107	13	4°02'4"	21°52'6"	81181	13	6°05'4"	25°26'9"
80960	11	12°02'4"	12°98'6"	81034*	32	11°54'9"	16°76'8"	81108	13	6°37'0"	21°32'1"	81182	11	6°55'0"	25°11'0"
80961	13	15°73'0"	12°62'5"	81035	12	11°63'5"	16°75'0"	81109	12	6°64'6"	21°48'8"	81183	13	9°61'6"	25°58'9"
80962	22	16°07'8"	12°41'1"	81036	11	13°05'0"	16°52'9"	81110	13	6°81'5"	21°33'9"	81184	13	10°14'7"	25°05'5"
80963	13	18°60'9"	12°64'4"	81037	12	13°24'5"	16°58'1"	81111	12	7°12'1"	21°48'8"	81185	12	11°04'1"	25°80'2"
80964	12	19°09'4"	12°42'8"	81038	13	13°94'0"	16°35'9"	81112	13	11°42'1"	21°22'9"	81186*	31	13°27'6"	25°20'9"
80965*	32	19°42'0"	12°48'1"	81039	11	14°54'6"	16°28'2"	81113	10	13°12'9"	21°39'1"	81187	11	13°85'6"	25°49'0"
80966	12	21°47'9"	12°77'1"	81040	13	15°14'8"	16°32'5"	81114	13	13°69'2"	21°06'0"	81188	13	16°22'1"	25°05'1"
80967	13	21°58'0"	12°39'4"	81041*	32	19°57'4"	16°80'9"	81115	13	17°01'7"	21°87'1"	81189	13	16°33'4"	25°36'8"
80968*	23	22°30'5"	12°12'1"	81042	11	23°50'5"	16°04'7"	81116	11	18°39'7"	21°91'9"	81190	12	16°54'4"	25°70'1"
80969*	31	22°93'3"	12°92'0"	81043	13	24°08'3"	16°87'0"	81117	11	20°47'4"	21°63'2"	81191	11	16°69'1"	25°20'7"
80970	12	0°21'3"	13°68'1"	81044	18	0°02'1"	17°45'9"	81118	13	21°33'8"	21°64'4"	81192	12	17°91'0"	25°10'6"
80971	13	4°69'4"	13°77'9"	81045	12	0°14'4"	17°28'5"	81119	10	22°54'6"	21°61'8"	81193	12	18°40'4"	25°26'8"
80972	13	6°49'1"	13°63'1"	81046	13	1°49'7"	17°54'9"	81120	12	23°80'8"	21°28'4"	81194	13	19°29'2"	25°69'7"
80973	10	6°68'9"	13°80'2"	81047	11	6°91'4"	17°24'9"	81121	12	1°97'9"	22°10'9"	81195	11	19°51'4"	25°13'4"
80974*	24	9°53'4"	13°60'9"	81048	10	7°45'4"	17°56'0"	81122*	32	2°55'1"	22°40'7"	81196	13	24°10'9"	25°82'2"
80975	22	9°96'8"	13°84'5"	81049	10	8°01'6"	17°29'8"	81123	13	5°40'2"	22°53'0"	81197	22	25°81'7"	25°69'0"
80976	21	10°20'0"	13°77'2"	81050	10	12°74'5"	17°99'5"	81124*	33	7°39'9"	22°92'9"				
80977*	39	12°36'0"	13°39'9"	81051	13	13°19'9"	17°06'1"	81125	13	10°00'4"	22°81'2"				
80978	12	13°89'2"	13°49'1"	81052*	22	17°48'9"	17°50'9"	81126	10	10°86'6"	22°48'4"				
80979	18	15°36'													

81257	10	18°180	4°081	81331	9	23°050	9°086	81405*	29	1°830	14°886	81479	8	14°939	18°509	81553	10	18°186	24°214
81258	9	18°217	4°572	81332	13	24°952	9°416	81406	12	2°359	14°744	81480	11	15°794	18°321	81554	9	18°642	24°688
81259	6	19°189	4°169	81333	8	0°627	10°821	81407	11	4°816	14°295	81481	20	16°645	18°407	81555	12	21°095	24°451
81260	7	20°047	4°289	81334	11	2°815	10°338	81408	10	5°438	14°305	81482	10	17°266	18°449	81556	12	21°669	24°663
81261	7	23°336	4°385	81335	9	4°140	10°486	81409	9	5°683	14°391	81483	11	19°843	18°448	81557	18	4°161	25°433
81262	25	2°153	5°793	81336	8	4°542	10°978	81410	8	9°436	14°909	81484	9	21°730	18°240	81558	12	5°581	25°539
81263	8	10°106	5°226	81337	10	5°531	10°989	81411*	21	11°101	14°052	81485	12	22°100	18°253	81559*	20	5°749	25°401
81264	11	12°167	5°539	81338	11	6°249	10°957	81412	12	12°686	14°954	81486	9	24°221	18°684	81560	11	9°506	25°627
81265	9	12°413	5°647	81339	8	11°665	10°306	81413	10	12°945	14°131	81487	10	2°098	19°046	81561	11	11°499	25°967
81266	9	12°970	5°536	81340	10	12°244	10°032	81414	8	16°029	14°054	81488	10	6°041	19°676	81562*	47	15°666	25°394
81267	10	13°043	5°296	81341	8	13°260	10°389	81415	9	17°811	14°976	81489*	11	9°272	19°975	81563	10	15°879	25°735
81268	14	13°400	5°915	81342	9	16°111	10°716	81416	9	18°425	14°978	81490	13	9°460	19°448	81564	9	17°520	25°353
81269*	32	14°269	5°430	81343	10	16°319	10°793	81417	8	19°200	14°956	81491	9	10°511	19°526	81565	10	19°718	25°930
81270	10	14°295	5°492	81344	8	16°528	10°094	81418	13	19°264	14°885	81492	10	13°455	19°512	81566	12	22°948	25°240
81271	9	15°329	5°428	81345	12	18°960	10°119	81419	9	19°438	14°267	81493	9	15°126	19°119	81567	15	24°387	25°805
81272	11	16°119	5°499	81346	9	20°221	10°078	81420	11	19°486	14°838	81494	16	24°318	19°178				
81273*	29	17°414	5°316	81347	10	20°359	10°727	81421	9	20°251	14°856	81495	9	24°574	19°436				
81274	12	17°781	5°809	81348	8	20°482	10°179	81422	22	24°837	14°263	81496*	40	0°638	20°769				
81275	10	18°721	5°849	81349	17	25°349	10°275	81423	7	1°651	15°431	81497	9	1°337	20°035				
81276	10	18°990	5°709	81350	10	25°905	10°151	81424	10	4°773	15°988	81498*	12	10°268	20°507				
81277	10	21°687	5°184	81351*	29	0°388	11°928	81425	9	5°548	15°965	81499	10	10°792	20°274				
81278	11	24°029	5°597	81352	11	3°796	11°132	81426	10	5°910	15°186	81500	9	10°891	20°696				
81279	21	24°880	5°482	81353*	35	10°565	11°318	81427*	11	6°956	15°955	81501	19	12°501	20°442				
81280*	60	25°471	5°463	81354	10	12°107	11°074	81428	8	9°511	15°299	81502	10	12°865	20°620				
81281	11	0°705	6°115	81355	10	12°502	11°622	81429	9	10°881	15°150	81503	10	13°032	20°683				
81282	30	2°390	6°453	81356	12	13°152	11°469	81430	10	11°121	15°801	81504	8	13°424	20°578				
81283	8	2°830	6°598	81357	11	13°450	11°411	81431	9	11°408	15°757	81505	10	16°716	20°276				
81284	19	3°449	6°162	81358	7	13°511	11°066	81432	8	15°388	15°398	81506	9	21°819	20°759				
81285	7	8°388	6°480	81359	9	14°150	11°646	81433	8	17°786	15°653	81507	9	22°532	20°074				
81286	10	8°421	6°512	81360	8	14°489	11°762	81434*	29	18°845	15°256	81508	11	23°673	20°684				
81287	9	15°534	6°936	81361	9	14°520	11°897	81435	10	19°023	15°165	81509*	55	25°258	20°249				
81288	8	18°059	6°094	81362	9	19°062	11°560	81436	8	20°221	15°296	81510	10	4°286	21°182				
81289*	24	21°591	6°167	81363	10	19°821	11°275	81437	9	20°587	15°446	81511	21	7°912	21°408				
81290	12	25°009	6°241	81364	9	20°376	11°255	81438	9	22°248	15°443	81512	10	7°980	21°890				
81291	20	1°684	7°477	81365	8	22°407	11°464	81439	14	2°261	16°643	81513	11	9°870	21°473				
81292	10	2°100	7°945	81366*	48	23°046	11°975	81440	9	8°087	16°502	81514	8	9°895	21°456				
81293	9	3°390	7°766	81367*	40	1°032	12°714	81441	10	9°284	16°031	81515	7	10°424	21°671				
81294	11	5°628	7°445	81368	7	5°860	12°328	81442	7	11°532	16°700	81516	9	10°463	21°864				
81295	19	7°740	7°314	81369	8	5°971	12°705	81443	11	13°127	16°174	81517	8	13°515	21°212				
81296	8	10°523	7°776	81370	10	6°722	12°583	81444	14	15°170	16°863	81518*	15	18°640	21°479				
81297	10	11°487	7°321	81371	9	6°979	12°685	81445	10	15°809	16°940	81519	11	20°523	21°959				
81298	10	12°360	7°416	81372	8	12°441	12°453	81446	9	15°910	16°897	81520	11	23°161	21°198				
81299	10	12°633	7°540	81373	10	13°216	12°356	81447	8	16°077	16°100	81521	9	23°568	21°733				
81300	10	12°796	7°210	81374	19	13°256	12°888	81448	8	16°725	16°791	81522	14	25°038	21°445				
81301	10	13°239	7°399	81375	10	16°861	12°091	81449	9	19°224	16°355	81523	7	4°028	22°440				
81302	9	14°344	7°291	81376	9	18°367	12°882	81450	12	20°067	16°618	81524	8	7°524	22°695				
81303*	22	14°953	7°836	81377	11	19°135	12°791	81451	9	24°188	16°517	81525	8	8°718	22°729				
81304	8	15°185	7°806	81378	10	20°147	12°423	81452	8	0°486	17°251	81526	11	11°672	22°896				
81305	8	18°746	7°395	81379	9	21°114	12°294	81453*	12	2°284	17°464	81527	12	12°353	22°534				
81306	9	21°135	7°292	81380	11	21°619	12°244	81454	11	2°973	17°923	81528	11	12°674	22°955				
81307	10	2°644	8°952	81381	8	21°779	12°879	81455	8	8°647	17°661	81529	8	13°971	22°670				
81308	8	4°674	8°661	81382*	22	21°877	12°538	81456	9	9°043	17°888	81530	9	17°344	22°597				
81309*	33	6°750	8°721	81383	9	22°095	12°832	81457	9	9°486	17°531	81531	12	18°188	22°101				
81310	10	7°336	8°119	81384	11	0°692	13°485	81458	10	10°136	17°251	81532	14	18°757	22°861				
81311	11	7°906	8°939	81385	10	2°070	13°082	81459	9	10°288	17°660	81533	10	20°118	22°252				
81312	10	9°759	8°042	81386	11	2°523	13°783	81460	13	10°309	17°007	81534	27	23°511	22°939				
81313	9	10°368	8°875	81387	10	2°746	13°844	81461	10	16°303	17°632	81535	7	25°727	22°888				
81314	8	11°849	8°736	81388	9	5°063	13°595	81462	8	16°640	17°277	81536*	14	3°469	23°811				
81315	20	13°714	8°711	81389	11	7°525	13°948	81463	9	16°688	17°175	81537*	11	3°595	23°990				
81316	9	14°709	8°593	81390*	20	7°627	13°234	81464*	41	16°921	17°079	81538	10	4°160	23°866				
81317*	29	15°171	8°731	81391	9	8°121	13°269	81465	10	17°779	17°804	81539*	40	8°700	23°924				
81318	10	23°851	8°117	81392	7	13°621	13°402	81466	9	21°701	17°588	81540	11	11°150	23°332				
81319	7	1°200	9°426	81393	9	15°411	13°622	81467	11	22°202	17°917	81541	9	13°031	23°969				
81320	9	4°166	9°297	81394	10	18°050	13°824	81468	8	3°200	18°706	81542	10	14°454	23°817				
81321	9	5°133	9°117	81395	10	19°965	13°782	81469	9	4°179	18°843	81543	11	14°519	23°983				
81322	9	8°422	9°795	81396	10	21°290	13°802	81470	9	4°546	18°033	81544	12	16°416	23°300				
81323	8	12°443	9°695	81397	9	21°401	13°342	81471	9	6°838	18°287	81545	10	17°079	23°881				
81324	10	13°831	9°761	81398*	11	22°318	13°126	81472	10	8°503	18°161	81546	11	22°156	23°251				
81325	8	14°150	9°732	81399	9	22°816	13°486	81473	19	8°966	18°319	81547	9						

81637	14	22°143	2°002	81711	11	9°397	8°000	81785*	40	5°188	14°434	81859	14	5°563	20°290	81933	13	23°315	25°417
81638	11	22°272	2°939	81712*	60	9°407	8°442	81786	11	6°904	14°812	81860	10	6°530	20°921	81934	17	25°619	25°279
81639*	23	22°676	2°143	81713	8	11°700	8°535	81787	20	10°375	14°469	81861	11	7°230	20°937				
81640	22	1°184	3°539	81714	11	11°814	8°176	81788	13	14°410	14°002	81862	11	7°810	20°610				
81641	25	2°240	3°291	81715	13	12°402	8°095	81789	14	15°174	14°839	81863	9	13°183	20°512				
81642*	31	3°323	3°420	81716	11	16°356	8°242	81790*	30	16°961	14°026	81864	12	13°220	20°494				
81643	13	6°960	3°620	81717	15	16°841	8°404	81791	11	21°568	14°991	81865	9	15°271	20°782				
81644	16	10°579	3°756	81718	13	17°285	8°306	81792*	22	22°667	14°734	81866	13	24°440	20°049				
81645	10	10°937	3°074	81719	12	18°130	8°215	81793	10	25°714	14°539	81867	28	0°341	21°213				
81646	14	14°178	3°923	81720	10	18°493	8°133	81794	21	0°743	15°894	81868	27	1°684	21°645				
81647*	41	15°483	3°694	81721	9	20°392	8°026	81795	9	6°938	15°740	81869	22	2°195	21°130				
81648	9	16°269	3°542	81722	10	21°301	8°578	81796	14	12°696	15°065	81870	15	3°545	21°398				
81649	17	20°730	3°391	81723	11	24°026	8°873	81797	17	12°991	15°789	81871	19	3°563	21°881				
81650	9	20°898	3°764	81724	18	1°519	9°537	81798	12	13°800	15°697	81872	17	8°200	21°467				
81651	13	23°156	3°160	81725	14	3°423	9°857	81799	9	14°471	15°314	81873	19	8°634	21°566				
81652	13	25°554	3°539	81726	10	5°936	9°305	81800*	28	14°740	15°159	81874	9	9°102	21°944				
81653	12	2°623	4°531	81727	9	7°130	9°619	81801	13	16°627	15°253	81875	9	9°254	21°925				
81654	21	3°549	4°401	81728	11	7°419	9°486	81802	13	19°089	15°472	81876	9	10°597	21°365				
81655	16	5°890	4°313	81729	17	11°318	9°467	81803	11	22°627	15°126	81877	10	11°992	21°708				
81656	11	10°291	4°965	81730	9	11°665	9°746	81804	9	23°878	15°701	81878*	18	14°670	21°785				
81657	8	11°896	4°731	81731	13	14°276	9°707	81805	9	25°473	15°805	81879	14	14°740	21°813				
81658	10	17°779	4°366	81732	12	14°491	9°676	81806	8	25°630	15°654	81880	8	18°529	21°317				
81659	9	18°050	4°052	81733	13	14°986	9°125	81807	16	2°693	16°959	81881	9	19°110	21°568				
81660	8	21°471	4°849	81734	12	17°950	9°480	81808	13	3°445	16°198	81882	10	19°848	21°247				
81661	10	21°715	4°158	81735	9	21°266	9°566	81809	11	11°058	16°852	81883	10	20°565	21°804				
81662	12	22°305	4°175	81736	19	22°179	9°402	81810	10	11°593	16°824	81884	9	21°804	21°474				
81663	13	23°934	4°499	81737	9	22°615	9°851	81811*	36	13°964	16°155	81885	8	22°444	21°740				
81664	22	0°135	5°640	81738	10	24°209	9°545	81812	15	15°478	16°220	81886	15	24°867	21°703				
81665	24	3°330	5°924	81739	9	25°871	9°208	81813	10	17°243	16°949	81887	12	25°034	21°947				
81666*	50	3°921	5°900	81740	18	1°020	10°179	81814	15	19°013	16°967	81888	17	2°094	22°178				
81667	12	4°065	5°705	81741	15	3°821	10°714	81815	10	19°046	16°786	81889	16	4°243	22°790				
81668	8	4°780	5°577	81742	9	4°377	10°587	81816	12	20°631	16°023	81890	13	11°371	22°436				
81669	11	6°395	5°938	81743	13	6°219	10°328	81817	11	22°820	16°241	81891	11	12°476	22°060				
81670	12	7°085	5°257	81744	9	7°145	10°486	81818	12	5°491	17°213	81892	10	22°239	22°259				
81671	9	7°259	5°818	81745	13	8°440	10°789	81819	10	6°075	17°002	81893	14	24°045	22°520				
81672	10	9°658	5°015	81746	9	11°250	10°151	81820	9	9°028	17°616	81894	13	24°427	22°666				
81673	11	11°217	5°881	81747	22	14°536	10°673	81821*	26	10°973	17°557	81895	34	2°044	23°383				
81674	9	11°406	5°275	81748	13	17°492	10°125	81822	16	12°498	17°121	81896	23	5°264	23°564				
81675	13	12°130	5°405	81749	12	19°186	10°348	81823*	24	13°591	17°084	81897	16	5°976	23°713				
81676	10	13°812	5°211	81750*	40	7°415	11°264	81824	11	18°026	17°206	81898	14	9°210	23°307				
81677	9	17°397	5°335	81751	19	10°236	11°945	81825	9	20°166	17°507	81899	9	16°695	23°841				
81678	14	18°480	5°856	81752	14	11°271	11°874	81826	12	20°584	17°109	81900	10	19°290	23°585				
81679	9	19°281	5°581	81753	16	14°109	11°281	81827*	19	20°755	17°704	81901	9	19°963	23°528				
81680	8	20°556	5°087	81754	13	15°427	11°480	81828	9	25°070	17°235	81902	20	24°241	23°719				
81681	9	21°079	5°296	81755	14	17°444	11°887	81829	29	0°209	18°042	81903	13	24°522	23°029				
81682	10	22°660	5°995	81756	19	17°665	11°025	81830	19	0°242	18°693	81904*	34	25°839	23°542				
81683	11	24°575	5°617	81757	11	20°644	11°199	81831	34	0°609	18°706	81905	13	8°264	24°981				
81684	10	24°942	5°752	81758	14	22°486	11°787	81832	26	0°709	18°370	81906	11	12°215	24°746				
81685	10	25°145	5°916	81759	9	24°326	11°863	81833	10	4°272	18°303	81907	9	14°119	24°275				
81686*	44	0°043	6°623	81760	24	24°959	11°985	81834	11	6°785	18°632	81908	12	15°463	24°087				
81687	20	2°482	6°040	81761	34	0°100	12°701	81835	17	11°089	18°489	81909*	11	15°586	24°848				
81688	20	3°463	6°681	81762*	40	0°359	12°993	81836	13	12°031	18°860	81910	9	15°881	24°028				
81689	11	11°021	6°653	81763*	58	1°530	12°421	81837	9	14°338	18°883	81911	10	16°080	24°909				
81690	12	15°411	6°988	81764	11	6°703	12°514	81838	11	18°692	18°827	81912	10	17°560	24°620				
81691	9	15°554	6°694	81765*	34	8°731	12°047	81839	10	19°474	18°063	81913*	28	18°952	24°121				
81692	14	18°453	6°823	81766	10	12°514	12°171	81840*	19	20°039	18°598	81914*	27	21°968	24°844				
81693	13	19°987	6°295	81767	10	14°451	12°304	81841	12	21°753	18°503	81915	13	21°996	24°045				
81694	9	22°826	6°239	81768	11	14°545	12°567	81842*	21	22°374	18°729	81916*	34	22°271	24°650				
81695	8	23°840	6°226	81769	16	14°665	12°584	81843	17	25°388	18°464	81917	14	22°710	24°537				
81696	10	25°460	6°113	81770	17	14°928	12°379	81844	22	2°834	19°617	81918	12	22°759	24°490				
81697	12	6°221	7°622	81771	15	14°948	12°315	81845	18	8°144	19°555	81919	31	0°204	25°123				
81698	11	6°236	7°421	81772	13	15°347	12°435	81846	10	9°699	19°573	81920	25	1°489	25°692				
81699	10	7°388	7°947	81773	10	25°011	12°516	81847	19	11°530	19°634	81921	21	5°896	25°354				
81700	11	9°481	7°352	81774	20	0°584	13°287	81848	11	12°908	19°220	81922*	28	6°013	25°166				
81701	10	11°819	7°185	81775*	24	0°803	13°579	81849	18	14°134	19°908	81923	14	6°908	25°778				
81702	15	12°370	7°823	81776	20	1°304	13°935	81850	23	15°640	19°562	81924	12	9°324	25°139				
81703	11	18°884	7°725	81777	10	8°833	13°066	81851	10	16°724	19°673	81925	12	12°734	25°422				
81704	12	19°133	7°726	81778	13	15°294	13°680	81852	9	18°665	19°838	81926	9	15°408	25°680				
81705	10	19°709	7°890	81779	9	19°605	13°669	81853	10	22°252	19°709	81927	10	18°332	25°707				
81706	13	20°010	7°172	81780*	24	21°735	13°455	81854	9	24°151	19°181	81928	12	18°929</					

82050	8	7°541	6°884	82124	13	5°294	15°234	82198	15	24°035	21°561	82321	11	18°819	1°729	82395	8	25°608	7°254
82051	9	9°480	6°289	82125	10	7°290	15°788	82199	11	2°863	22°071	82322*	43	0°411	2°526	82396	9	25°655	7°840
82052	6	16°631	6°247	82126	11	8°200	15°294	82200	14	4°203	22°894	82323	11	2°601	2°070	82397	13	1°298	8°376
82053	14	16°839	6°979	82127*	12	9°338	15°990	82201	11	4°814	22°527	82324*	28	4°830	2°902	82398	6	5°679	8°579
82054	14	22°034	6°386	82128	9	10°665	15°006	82202	8	5°663	22°074	82325	7	5°997	2°441	82399	19	6°210	8°808
82055	7	25°249	6°935	82129	7	10°674	15°307	82203	9	7°898	22°379	82326	10	6°219	2°593	82400	7	8°073	8°345
82056	10	5°558	7°778	82130	10	10°751	15°954	82204	21	8°082	22°490	82327	8	7°959	2°855	82401	21	8°429	8°816
82057	4	9°068	7°214	82131	9	10°958	15°255	82205	19	9°120	22°262	82328	9	8°250	2°383	82402	13	10°637	8°165
82058	15	13°710	7°391	82132*	27	13°211	15°706	82206	7	9°247	22°089	82329	11	10°362	2°101	82403	15	13°231	8°160
82059	9	17°677	7°407	82133	8	14°695	15°829	82207	10	9°530	22°277	82330	10	11°602	2°814	82404	6	14°065	8°427
82060	10	20°412	7°036	82134	10	14°926	15°847	82208	8	9°964	22°872	82331	11	15°070	2°113	82405	10	14°403	8°681
82061	11	21°284	7°387	82135	11	18°369	15°432	82209	18	2°094	23°873	82332	12	19°323	2°448	82406	12	19°269	8°051
82062	19	5°789	8°542	82136	8	20°766	15°326	82210*	31	3°702	23°664	82333	10	20°184	2°669	82407	9	20°280	8°597
82063	10	7°537	8°044	82137	7	21°580	15°291	82211	9	5°791	23°488	82334	12	23°450	2°449	82408	12	25°599	8°922
82064	7	7°543	8°537	82138*	25	22°534	15°924	82212	11	10°894	23°929	82335	22	0°855	3°425	82409	20	0°270	9°379
82065	11	10°641	8°345	82139	8	0°524	16°359	82213	11	13°798	23°236	82336	10	1°244	3°588	82410	10	4°187	9°986
82066*	24	11°084	8°166	82140	13	7°960	16°530	82214	16	20°905	23°387	82337	12	3°164	3°332	82411*	29	4°368	9°120
82067	5	11°489	8°139	82141	11	8°056	16°653	82215*	31	0°123	24°849	82338*	23	4°312	3°684	82412	11	5°398	9°644
82068	9	13°900	8°192	82142	9	15°673	16°865	82216	7	0°568	24°722	82339*	21	5°157	3°489	82413	6	7°323	9°060
82069	7	14°598	8°855	82143*	15	16°257	16°645	82217	15	5°700	24°936	82340	11	5°695	3°698	82414	16	10°697	9°007
82070	18	14°929	8°374	82144	12	18°329	16°494	82218	10	9°467	24°744	82341	16	6°568	3°114	82415	22	15°487	9°149
82071	12	16°233	8°038	82145	5	18°868	16°952	82219	11	10°175	24°372	82342	9	8°696	3°580	82416	16	17°566	9°265
82072	15	22°551	8°017	82146	19	19°075	16°676	82220	8	12°936	24°070	82343	10	14°683	3°452	82417	9	17°622	9°949
82073	12	22°817	8°544	82147	11	22°186	16°432	82221	9	17°068	24°733	82344	8	17°462	3°290	82418	9	20°266	9°578
82074*	31	5°516	9°548	82148	10	5°086	17°191	82222	13	24°556	24°094	82345	9	17°475	3°381	82419	10	24°082	9°004
82075	8	5°729	9°404	82149	13	5°468	17°918	82223	10	10°031	25°592	82346	12	18°203	3°746	82420	11	25°820	9°412
82076	9	5°962	9°203	82150	10	6°429	17°970	82224	12	12°120	25°472	82347	16	0°814	4°553	82421	9	6°053	10°417
82077*	30	7°567	9°870	82151	12	7°269	17°148	82225	8	13°618	25°869	82348	16	4°665	4°444	82422	17	8°914	10°158
82078*	23	8°765	9°390	82152	11	11°236	17°457	82226	10	16°209	25°022	82349	6	8°208	4°081	82423	9	9°058	10°252
82079	10	10°792	9°349	82153	9	13°990	17°302	82227	7	17°422	25°403	82350	11	9°023	4°476	82424	7	9°146	10°116
82080	5	15°120	9°199	82154*	29	17°318	17°823	82228	11	19°587	25°862	82351	8	9°681	4°115	82425	8	12°215	10°501
82081	11	16°050	9°279	82155	11	18°798	17°044	82229	12	25°899	25°020	82352	17	12°223	4°668	82426	16	13°169	10°416
82082*	19	17°032	9°532	82156	20	19°775	17°959					82353	8	13°332	4°611	82427	12	14°126	10°529
82083	5	21°098	9°156	82157	8	21°024	17°323					82354	9	15°264	4°360	82428	7	15°298	10°815
82084	9	21°225	9°198	82158	9	23°320	17°092					82355	14	16°360	4°385	82429	11	15°925	10°998
82085	18	21°775	9°535	82159*	22	25°057	17°168					82356	15	19°812	4°686	82430	18	17°304	10°294
82086	33	25°879	9°332	82160*	31	0°120	18°875					82357	13	20°360	4°134	82431	23	17°855	10°572
82087	13	4°431	10°419	82161	14	3°158	18°554					82358	17	22°739	4°152	82432	15	17°933	10°019
82088	8	16°336	10°019	82162*	17	7°764	18°084					82359	18	5°087	5°905	82433	12	18°032	10°431
82089	5	18°983	10°025	82163	6	12°109	18°170					82360	14	5°263	5°174	82434	8	23°401	10°810
82090	22	19°459	10°157	82164	11	18°670	18°208					82361	16	5°942	5°504	82435*	30	24°562	10°336
82091	13	0°106	11°875	82165	12	21°263	18°949					82362	9	9°892	5°007	82436	12	24°913	10°979
82092	18	5°480	11°944	82166	21	2°287	19°273					82363	8	13°316	5°388	82437	9	1°231	11°375
82093	13	6°933	11°308	82167	11	3°037	19°756					82364	15	22°075	5°383	82438	10	1°595	11°538
82094	11	9°426	11°021	82168	20	4°508	19°093					82365	10	24°302	5°643	82439	6	6°491	11°236
82095	9	23°067	11°711	82169	10	13°631	19°244					82366	15	0°482	6°230	82440*	27	6°685	11°259
82096	25	2°602	12°029	82170	8	13°941	19°346					82367	13	1°302	6°739	82441	9	8°291	11°300
82097	5	2°669	12°564	82171	11	16°290	19°984					82368	12	3°705	6°731	82442	7	9°786	11°167
82098	13	9°888	12°533	82172	10	18°329	19°030					82369	19	11°346	6°841	82443	9	9°911	11°344
82099	10	10°069	12°054	82173	11	19°769	19°086					82370	24	11°447	6°658	82444	7	10°992	11°446
82100	17	11°703	12°421	82174	21	22°578	19°971					82371	22	12°080	6°900	82445	5	11°274	11°105
82101	13	12°701	12°994	82175	20	23°157	19°145					82372	9	12°251	6°970	82446	15	12°400	11°892
82102	10	14°687	12°995	82176	11	23°563	19°305					82373	10	18°965	6°516	82447*	28	14°363	11°839
82103	11	15°264	12°032	82177	11	2°228	20°169					82374	12	19°910	6°630	82448	9	15°019	11°035
82104	9	3°395	13°439	82178	12	5°599	20°230					82375	13	22°540	6°043	82449	11	16°403	11°166
82105	11	8°574	13°727	82179	13	6°843	20°710					82376	10	23°814	6°419	82450	13	17°835	11°869
82106	14	9°469	13°783	82180	7	7°498	20°157					82377	13	23°910	6°643	82451	10	21°697	11°200
82107	10	16°020	13°582	82181	10	10°793	20°264					82378*	20	24°272	6°000	82452	9	21°864	11°639
82108	8	16°692	13°276	82182	15	11°222	20°159					82379	9	24°613	6°857	82453	9	22°739	11°399
82109	11	19°889	13°798	82183*	14	13°148	20°806					82380	13	24°740	6°517	82454	21	23°900	11°177
82110	11	20°031	13°889	82184	11	14°318	20°487					82381	8	24°871	6°365	82455	10	24°980	11°588
82111	15	21°943	13°794	82185	8	14°666	20°045					82382	16	25°329	6°426	82456	12	7°936	12°988
82112*	27	0°344	14°842	82186	10	20°650	20°597					82383	15	1°024	7°853	82457	15	8°569	12°992
82113	9	3°412	14°589	82187	16	21°230	20°291					82384*	31	8°820	7°322	82458	12	10°474	12°314
82114*	15	5°285	14°036	82188	15	2°692	21°830					82385	10	10°653	7°518	82459	8	10°856	12°503
82115	10	5°915	14°456	82189	9	4°193	21°441					82386	6	16°816	7°200	82460	8	16°219	12°076
82116	8	6°438	14°345	82190	10	6°498	21°995					82387	12	17°565	7°913	82461	7	18°258	

R. A. 23^h 48^m

Plate 247; 1892 Nov. 30.

Provisional Constants.

A	B	C
+00776	+00289	-4402

D	E	F
-00334	+00776	-0145

Mag. = 13.9 - 1.02 \sqrt{d}

No.	d	x	y
82701	13	9.805	0.338
82702	12	10.107	0.543
82703*	29	20.730	0.170
82704	20	8.751	1.050
82705	19	13.801	1.533
82706	9	18.448	1.990
82707	14	4.195	2.088
82708	13	4.216	2.848
82709	12	7.555	2.313
82710	7	11.725	2.061
82711*	25	14.411	2.474
82712	17	15.579	2.887
82713	12	8.547	3.655
82714	11	9.649	3.467
82715	10	13.122	3.824
82716	11	17.300	3.315
82717	19	20.717	3.447
82718	13	0.486	4.425
82719*	12	4.727	4.645
82720	7	6.376	4.842
82721	8	9.142	4.406
82722	9	11.878	4.788
82723*	22	12.463	4.213
82724	11	12.511	4.561
82725	15	12.766	4.822
82726	7	16.785	4.997
82727	9	19.289	4.216
82728	19	9.758	5.358
82729	12	10.802	5.405
82730	13	13.376	5.778
82731	6	14.174	5.648
82732	10	15.764	5.130
82733	7	16.728	5.094
82734	18	17.714	5.589
82735	13	21.399	5.156
82736	11	23.090	5.046
82737	8	0.316	6.320
82738	13	1.697	6.903
82739*	20	2.048	6.250
82740	18	3.110	6.662
82741	16	5.088	6.676
82742	8	6.367	6.894
82743	10	8.151	6.581
82744	8	8.610	6.744
82745	11	9.009	6.435
82746	12	9.687	6.906
82747*	20	9.807	6.455
82748	10	17.299	6.782
82749	6	17.826	6.753
82750	19	18.385	6.954
82751	11	18.771	6.690
82752	8	20.060	6.866
82753	8	23.036	6.958
82754	12	24.145	6.585
82755*	24	0.289	7.362
82756	8	2.315	7.674

82469	8	9.749	13.240	82543	17	22.945	18.091	82757	11	5.114	7.735	82831	12	20.780	13.649
82470	7	12.362	13.676	82544*	23	23.957	18.996	82758	12	6.017	7.583	82832	9	20.987	13.358
82471	11	14.177	13.334	82545	20	1.225	19.804	82759	9	8.736	7.018	82833	13	21.825	13.996
82472	9	16.896	13.688	82546	12	2.202	19.183	82760	7	11.166	7.363	82834*	49	0.336	14.331
82473*	38	19.574	13.137	82547	6	3.520	19.253	82761*	36	16.058	7.930	82835	21	0.339	14.601
82474	14	22.774	13.153	82548	7	4.820	19.202	82762	11	16.156	7.431	82836	15	5.409	14.489
82475	8	1.647	14.744	82549	8	5.881	19.500	82763*	23	24.612	7.645	82837	10	5.760	14.966
82476	7	2.851	14.291	82550	7	5.955	19.252	82764	15	2.812	8.077	82838	11	10.188	14.124
82477	7	6.533	14.717	82551*	15	9.639	19.539	82765	10	3.461	8.070	82839	9	15.602	14.375
82478	9	10.982	14.895	82552	7	9.675	19.464	82766*	20	6.225	8.618	82840	10	22.403	14.289
82479	11	11.029	14.734	82553	12	10.413	19.005	82767	8	6.461	8.477	82841	10	23.546	14.556
82480*	24	14.055	14.259	82554*	22	14.619	19.825	82768	12	6.912	8.582	82842	14	2.103	15.979
82481	10	15.281	14.274	82555	12	17.963	19.938	82769	9	12.901	8.828	82843*	23	2.876	15.687
82482	11	16.307	14.754	82556*	24	19.286	19.813	82770	11	14.379	8.639	82844	11	9.598	15.420
82483	17	16.599	14.389	82557	17	20.292	19.390	82771	8	14.794	8.858	82845	13	10.785	15.507
82484	10	18.211	14.908	82558	11	25.187	19.176	82772	15	19.703	8.648	82846*	27	11.496	15.776
82485	11	21.029	14.680	82559	7	1.955	20.758	82773*	23	19.762	8.064	82847	12	16.637	15.803
82486	12	21.786	14.685	82560	8	3.239	20.992	82774	12	19.780	8.145	82848	14	17.782	15.088
82487*	42	22.430	14.049	82561	11	4.412	20.470	82775	11	20.029	8.823	82849	9	22.271	15.659
82488	20	22.431	14.320	82562	8	5.923	20.997	82776*	64	25.504	8.044	82850	8	22.577	15.012
82489	10	22.926	14.753	82563	7	15.118	20.724	82777	11	1.907	9.259	82851	12	1.125	16.623
82490*	23	1.122	15.758	82564	10	18.948	20.455	82778	13	3.423	9.152	82852	10	2.200	16.569
82491	8	7.711	15.745	82565	6	19.222	20.404	82779	11	3.649	9.638	82853	17	7.654	16.545
82492	7	9.431	15.755	82566*	27	19.253	20.987	82780	9	4.582	9.983	82854	10	8.834	16.306
82493	10	9.628	15.167	82567	9	20.227	20.745	82781	12	5.025	9.147	82855	12	9.710	16.486
82494	12	10.529	15.597	82568*	34	25.986	20.114	82782*	27	6.177	9.990	82856	10	13.085	16.937
82495	8	13.597	15.486	82569	15	2.708	21.374	82783	7	7.121	9.473	82857	11	13.448	16.352
82496	11	17.674	15.592	82570	10	2.770	21.943	82784	9	7.198	9.673	82858	10	14.831	16.145
82497	13	19.553	15.292	82571	15	7.144	21.336	82785	10	10.056	9.293	82859	11	15.166	16.860
82498	11	20.437	15.464	82572	9	8.067	21.688	82786	11	13.505	9.437	82860	22	16.263	16.233
82499	9	21.268	15.225	82573	7	8.933	21.351	82787	8	15.895	9.863	82861	10	17.404	16.349
82500	16	21.416	15.802	82574	8	11.586	21.057	82788	9	16.433	9.819	82862	15	19.840	16.274
82501	8	23.375	15.686	82575	12	15.391	21.030	82789	10	16.904	9.290	82863	13	19.911	16.270
82502	14	24.171	15.729	82576	11	17.818	21.988	82790	10	18.733	9.501	82864	12	21.135	16.969
82503*	21	24.951	15.442	82577	9	18.357	21.551	82791	12	22.292	9.069	82865	15	24.950	16.159
82504	10	0.781	16.268	82578*	19	19.440	21.617	82792*	30	2.409	10.586	82866	11	2.114	17.788
82505	11	1.927	16.914	82579	7	19.772	21.847	82793	11	5.943	10.037	82867	16	2.516	17.197
82506*	17	3.662	16.965	82580	10	7.475	22.509	82794*	22	8.902	10.736	82868	10	5.431	17.535
82507*	25	4.790	16.895	82581	13	11.484	22.402	82795	9	10.842	10.725	82869	12	7.633	17.207
82508	12	8.393	16.273	82582*	30	14.906	22.291	82796	10	11.488	10.956	82870	10	8.638	17.535
82509	8	8.405	16.356	82583	8	16.845	22.515	82797	8	11.635	10.337	82871	11	10.014	17.190
82510	11	8.573	16.159	82584*	25	17.342	22.196	82798*	28	20.992	10.409	82872	17	11.780	17.509
82511	9	9.361	16.029	82585	8	18.006	22.439	82799*	26	25.211	10.217	82873	10	13.383	17.476
82512	9	14.311	16.381	82586	11	18.387	22.823	82800	9	25.637	10.318	82874	10	13.684	17.898
82513	8	17.292	16.240	82587	10	21.424	22.786	82801	23	1.759	11.435	82875	8	13.793	17.121
82514*	20	18.205	16.753	82588*	29	23.476	22.047	82802	12	2.765	11.223	82876	10	16.336	17.859
82515	12	20.338	16.109	82589	10	24.579	22.563	82803	9	4.119	11.957	82877	12	16.464	17.675
82516	10	23.187	16.354	82590	14	3.265	23.901	82804	8	7.696	11.175	82878	9	17.742	17.753
82517	14	24.568	16.950	82591	11	4.895	23.928	82805	7	8.155	11.419	82879	12	18.636	17.289
82518	8	25.140	16.702	82592	7	8.806	23.685	82806	11	8.156	11.805	82880*	35	18.981	17.860
82519	9	5.893	17.529	82593	15	10.524	23.386	82807	11	9.413	11.765	82881	12	19.811	17.129
82520	10	6.835	17.624	82594*	18	11.522	23.309	82808	9	11.830	11.171	82882	13	23.459	17.497
82521	12	8.668	17.332	82595	9	12.055	23.135	82809	11	13.599	11.317	82883	24	0.909	18.364
82522	8	10.774	17.586	82596	9	13.746	23.644	82810	12	13.747	11.422	82884	17	5.977	18.422
82523	12	15.189	17.814	82597	4	19.424	23.443	82811	12	14.294	11.551	82885	14	6.361	18.042
82524	10	18.103	17.225	82598	8	19.450	23.414	82812*	20	15.035	11.266	82886	15	6.382	18.874
82525	12	19.579	17.042	82599	14	24.296	23.435	82813	12	16.117	11.301	82887	21	10.563	18.479
82526	7	19.764	17.168	82600	14	25.716	23.487	82814	8	16.335	11.378	82888*	33	12.801	18.410
82527	7	21.045	17.833	82601	17	4.622	24.800	82815	12	17.704	11.627	82889	12	15.307	18.329
82528	12	21.859	17.197	82602	9	9.260	24.037	82816	15	0.671	12.617	82890	16	24.962	18.500
82529	7	23.962	17.081	82603	8	19.501	24.369	82817	11	9.319	12.999	82891	13	25.954	18.368
82530	8	24.159	17.532	82604	9	20.251	24.784	82818	11	15.246	12.708	82892*	27	1.940	19.253
82531	8	25.823	17.268	82605	8	7.216	25.705	82819	10	15.678	12.622	82893	14	3.171	19.415
82532	21	1.793	18.967	82606	11	7.948	25.198	82820	8	16.263	12.529	82894	21	4.269	19.470
82533	12	8.805	18.273	82607	9	8.350	25.705	82821	18	16.497	12.920	82895	6	4.273	19.436
82534	14	12.264	18.289	82608	10	12.560	25.245	82822	8	17.873	12.974	82896	11	6.179	19.280
82535	15	12.492	18.365	82609	9	16.948	25.580	82823	6	21.792	12.556	82897	8	7.330	19.252
82536*	21	13.964	18.284	82610	13	17.182	25.452	82824	11	0.601	13.209	82898	10	8.824	19.037
82537	11	15.551	18.265	82611*	21	18.619	25.077	82825	19	0.664	13.427	82899	18	9.660	19.474
82538	10	16.239	18.194	82612	12	22.324	25.176	82826	10	6.828	13.135	82900	20	9.779	19.887
82539	7	20.203	18.205	82613*	22	22.478	25.194	82827	7	6.946	13.528	82901	11	13.637	19.290
82540	11	21.092	18.883	82614	16	23.470	25.720	82828	15	9.706	13.086	82902*	17	16.286	19.330
82541	9	21.283	18.069	82615	11	24.519	25.678	82829	12	10.784	13.227	82903*	21	17.627	19.249
82542	18	21.864	18.152	82616	20	25.219	25.460	82830	9	20.138	13.677	82904	11	19.010	19.581

R. A. 23 ^h 48 ^m			
Plate 247; 1892 Nov. 30.			
Provisional Constants.			
A	B	C	
+0.00776	+0.00289	-0.4402	
D	E	F	
-0.00334	+0.00776	-0.0145	
Mag. = 13.9 - 1.02√d			
No.	d	x	y
82701	13	9.805	0.338
82702	12	10.107	0.543
82703*	29	20.730	0.170

82905*	31	3°9'82	20°33'9	<div>R. A. 23^h 56^m</div> <div>Plate 1242; 1898 Oct. 31.</div> <div>Provisional Constants.</div> <div>A B C</div> <div>-00040 +00873 -3731</div> <div>D E F</div> <div>-00903 -00020 +0887</div> <div>Mag. = 14.6 - 1.25√d</div>	83057	6	14°55'6	7°42'8	83131	9	25°7'18	14°7'48	83205	9	25°11'18	21°6'55
82906	15	5°53'0	20°26'3		83058	17	18°85'2	7°83'8	83132	8	0°54'2	15°7'27	83206*	16	3°38'8	22°0'58
82907	14	6°79'2	20°41'8		83059	13	23°28'8	7°75'3	83133	7	3°18'5	15°54'1	83207	13	4°43'2	22°5'20
82908	12	8°05'0	20°47'5		83060	8	23°71'8	7°13'6	83134*	20	4°76'6	15°36'4	83208	9	4°44'6	22°6'96
82909	8	9°56'4	20°58'0		83061*	50	3°59'1	8°11'0	83135	7	5°72'8	15°94'6	83209	9	5°17'1	22°1'63
82910	9	9°79'7	20°28'6		83062	10	5°23'4	8°60'3	83136	12	10°81'8	15°78'2	83210	8	8°06'2	22°5'16
82911	10	12°84'1	20°60'0		83063	10	7°34'5	8°39'2	83137	12	14°37'5	15°44'2	83211	8	8°34'1	22°4'06
82912	12	13°63'8	20°09'9		83064*	21	9°32'3	8°86'3	83138	8	15°64'6	15°04'6	83212	7	9°35'4	22°0'45
82913	9	16°80'6	20°13'5		83065	9	9°70'0	8°11'3	83139	7	15°67'0	15°44'1	83213	8	10°04'8	22°6'83
82914	11	17°68'7	20°54'9		83066	7	13°98'0	8°66'2	83140	9	22°19'8	15°86'9	83214	10	12°56'4	22°3'24
82915	10	17°73'0	20°36'1	83067	12	14°08'6	8°25'2	83141	9	3°20'4	16°17'1	83215	8	12°74'5	22°7'11	
82916	13	20°81'9	20°28'5	83068*	21	16°41'5	8°01'3	83142	7	4°44'5	16°13'3	83216*	11	14°95'2	22°7'50	
82917	14	22°16'6	20°13'7	83069	8	18°46'1	8°33'5	83143	7	6°37'6	16°57'4	83217	20	19°26'4	22°4'70	
82918	23	24°42'5	20°87'0	83070	9	0°42'8	9°18'8	83144	6	10°05'3	16°95'7	83218	8	20°73'9	22°4'20	
82919	12	4°03'1	21°61'0	83071	8	4°34'6	9°58'2	83145*	30	11°10'5	16°44'4	83219	9	23°74'4	22°0'92	
82920	11	6°00'6	21°34'4	83072	7	11°48'6	9°96'1	83146	7	12°33'4	16°69'4	83220	7	9°40'1	23°49'5	
82921*	21	7°65'0	21°17'3	83073	7	12°77'4	9°61'4	83147	8	18°30'3	16°54'9	83221	8	13°47'7	23°50'1	
82922	11	10°68'9	21°02'8	83074	18	13°49'3	9°44'3	83148	10	22°22'1	16°50'6	83222	7	13°67'6	23°7'25	
82923	14	12°69'5	21°32'1	83075*	20	14°67'1	9°21'4	83149	7	24°03'9	16°27'2	83223	9	13°80'8	23°3'67	
82924	14	13°31'1	21°57'5	83076	7	17°61'5	9°64'2	83150	9	1°74'5	17°90'0	83224	8	17°03'2	23°9'86	
82925	11	14°11'3	21°45'2	83077	10	18°06'6	9°00'2	83151	10	1°75'8	17°52'3	83225	13	17°36'2	23°8'04	
82926	10	14°51'1	21°28'9	83078	6	18°09'3	9°13'8	83152	8	4°82'2	17°93'0	83226	10	17°59'7	23°1'46	
82927	12	15°41'2	21°56'0	83079	8	20°51'8	9°82'1	83153	11	5°11'4	17°42'5	83227	11	18°31'5	23°6'26	
82928	11	19°59'9	21°34'4	83080	16	22°31'1	9°41'4	83154	8	7°80'1	17°53'3	83228	13	1°44'0	24°0'69	
82929	13	21°05'2	21°91'6	83081	9	23°30'6	9°02'2	83155	9	9°66'7	17°56'1	83229	9	10°83'0	24°0'50	
82930	9	21°50'7	21°66'9	83082	10	24°36'2	9°23'9	83156	11	9°81'2	17°92'5	83230	9	13°02'0	24°3'54	
82931*	37	1°50'4	22°31'3	83083*	21	3°34'7	10°27'2	83157	9	14°95'0	17°97'1	83231*	12	25°21'1	24°59'1	
82932*	27	5°35'0	22°49'2	83084	7	3°77'4	10°36'2	83158	9	15°97'3	17°27'6	83232	9	6°50'8	25°8'84	
82933	9	6°02'9	22°03'9	83085	8	9°58'2	10°82'1	83159	8	16°40'8	17°73'9	83233*	20	6°93'3	25°8'94	
82934	8	6°17'2	22°55'8	83086	9	10°64'8	10°19'4	83160	9	20°26'6	17°51'4	83234	10	8°32'8	25°9'30	
82935	9	8°25'5	22°81'3	83087	7	16°87'0	10°39'6	83161	8	20°86'7	17°87'6	83235	12	12°79'2	25°5'25	
82936	21	11°04'9	22°83'0	83088	8	17°47'4	10°26'2	83162	9	20°94'8	17°36'9	83236	9	16°10'2	25°2'16	
82937	9	11°45'1	22°87'0	83089	6	17°76'6	10°92'0	83163	8	21°53'9	17°36'4	83237	12	19°54'7	25°2'24	
82938	10	13°83'4	22°16'3	83090	8	18°01'8	10°49'8	83164	19	22°92'2	17°31'0	83238*	16	20°21'2	25°9'01	
82939	11	16°71'5	22°90'9	83091	9	20°97'1	10°35'2	83165	10	25°11'3	17°79'0	83239	9	20°53'1	25°5'66	
82940	11	19°76'4	22°44'3	83092	7	22°26'1	10°76'1	83166	11	25°25'4	17°51'8	83240	12	23°12'2	25°9'79	
82941	23	20°01'2	22°39'0	83093	8	9°74'7	11°79'1	83167	9	3°26'8	18°48'9	The next seven pages contain the measures of plates in 13 ^h better than those printed on pp. 111 to 113. The measurement of these later plates could not be completed in time for printing in the regular sequence. The repetition serves the purpose of illustrating what has been done in many other cases where only the new measures are printed.				
82942	8	23°59'9	22°42'8	83094	9	9°85'5	11°47'4	83168	6	4°24'1	18°64'4					
82943*	23	25°01'0	22°10'0	83095	8	15°11'8	11°95'4	83169	7	4°73'5	18°84'9					
82944	16	2°34'4	23°68'9	83096	7	21°98'1	11°45'1	83170	11	7°27'0	18°22'8					
82945	16	3°77'0	23°72'0	83097*	20	6°63'2	12°01'7	83171	7	11°82'0	18°27'7					
82946	11	9°07'9	23°95'8	83098	8	12°33'3	12°46'1	83172	8	13°73'4	18°24'4					
82947	8	9°94'1	23°30'2	83099	9	14°85'0	12°47'5	83173	7	14°85'0	18°59'2					
82948	9	13°77'1	23°00'7	83100	9	17°07'2	12°37'3	83174	9	15°03'8	18°52'8					
82949	11	13°96'9	23°64'1	83101	7	20°30'7	12°77'5	83175	6	15°17'4	18°23'9					
82950	10	18°60'5	23°87'6	83102	8	4°10'3	13°31'5	83176	12	15°58'0	18°80'4					
82951	11	19°28'0	23°94'8	83103*	19	6°99'0	13°31'1	83177	8	16°06'0	18°69'8					
82952	16	20°44'4	23°58'7	83104	8	7°02'7	13°74'2	83178	6	18°27'0	18°43'0					
82953	9	0°04'4	24°29'1	83105	7	8°27'1	13°64'3	83179	7	21°21'6	18°97'0					
82954	10	5°84'8	24°05'1	83106	8	8°82'2	13°84'6	83180	8	21°31'9	18°61'7					
82955	11	7°51'3	24°40'4	83107	7	9°55'8	13°11'9	83181*	21	6°86'7	19°72'4					
82956	14	8°04'1	24°88'9	83108	10	9°67'7	13°45'0	83182	8	7°04'4	19°61'7					
82957	10	9°78'8	24°54'1	83109	7	12°94'9	13°71'5	83183	7	13°16'1	19°47'2					
82958	12	11°43'6	24°57'8	83110	19	13°90'2	13°77'2	83184	8	13°31'3	19°24'4					
82959	19	12°00'3	24°09'2	83111	7	14°82'2	13°47'8	83185*	20	14°86'0	19°67'7					
82960	16	12°39'4	24°19'8	83112	7	16°28'5	13°47'0	83186	9	15°72'1	19°39'2					
82961	13	12°52'2	24°57'8	83113	6	17°00'1	13°48'3	83187	6	15°83'0	19°75'2					
82962	20	13°73'0	24°90'7	83114	10	21°56'0	13°59'9	83188	9	19°83'0	19°03'6					
82963	11	14°41'1	24°89'8	83115	7	23°33'9	13°12'0	83189	7	20°77'8	19°25'6					
82964	13	21°03'9	24°64'2	83116	9	24°19'0	13°38'4	83190	10	0°52'8	20°17'0					
82965	17	21°15'0	24°46'0	83117	17	25°20'1	13°61'1	83191	18	2°78'4	20°85'1					
82966	19	23°00'6	24°08'5	83118	18	25°66'7	13°34'2	83192	12	5°99'3	20°68'6					
82967*	34	0°55'4	25°47'9	83119	12	0°06'1	14°08'5	83193	8	8°10'8	20°87'1					
82968	15	1°55'7	25°99'1	83120	9	0°64'5	14°36'5	83194	9	8°34'8	20°41'9					
82969	16	2°61'0	25°92'1	83121	8	1°78'3	14°60'5	83195	8	9°27'5	20°48'5					
82970	20	3°30'5	25°70'2	83122	10	5°06'9	14°86'3	83196	7	11°28'7	20°01'4					
82971	14	7°65'3	25°23'0	83123	8	6°05'9	14°47'4	83197	8	14°42'2	20°90'0					
82972*	14	10°30'5	25°45'7	83124	7	7°55'8	14°90'9	83198	8	14°76'2	20°24'9					
82973	11	16°98'2	25°23'0	83125	8	8°22'4	14°79'4	83199	9	19°07'4	20°61'4					
82974	15	16°98'9	25°17'8	83126*	16	9°39'7	14°30'5	83200	7	7°21'5	21°96'3					
82975	15	1														

R. A. 13^h 0^m

Plate 2801; 1909 Dec. 20.

Provisional Constants.

A	B	C
-00082	-00629	+3448

D	E	F
+00655	-00042	-1651

Mag. = 15.8 - 1.25 \sqrt{d}

No.	d	x	y
83301	16	12.951	0.552
83302	25	13.661	0.983
83303*	32	22.231	0.366
83304	11	3.349	1.807
83305*	55	6.891	1.332
83306	10	8.543	1.664
83307	8	10.888	1.875
83308	11	1.764	2.832
83309	27	3.442	2.928
83310	7	9.421	2.959
83311	10	16.878	2.484
83312	9	18.041	2.803
83313	17	18.990	2.246
83314	21	21.656	2.905
83315	9	25.890	2.953
83316	48	0.293	3.895
83317*	61	1.601	3.184
83318	8	5.439	3.085
83319	22	6.790	3.928
83320	8	6.970	3.859
83321	6	9.914	3.436
83322*	34	10.060	3.071
83323	15	16.121	3.496
83324	12	3.956	5.063
83325	15	5.314	5.345
83326	7	6.496	5.979
83327*	40	8.716	5.263
83328	8	9.247	5.586
83329*	27	13.885	5.437
83330	16	14.507	5.221
83331*	28	15.872	5.487
83332	6	16.997	5.909
83333	18	19.538	5.508
83334	9	19.637	5.227
83335	18	20.454	5.934
83336	21	23.316	5.290
83337	12	12.512	6.955
83338	10	14.618	6.420
83339	11	14.937	6.268
83340	9	17.111	6.797
83341	9	19.220	6.713
83342	12	19.309	6.799
83343	9	22.117	6.172
83344*	45	25.430	6.167
83345	20	0.509	7.274
83346	11	2.726	7.906
83347	7	6.378	7.944
83348	8	7.539	7.660
83349	10	15.848	7.472
83350	10	16.381	7.284
83351*	34	21.073	7.476
83352*	31	21.119	7.597
83353	7	21.645	7.001
83354	20	22.268	7.574
83355	12	0.411	8.783
83356	20	2.033	8.778

83357	21	2.714	8.839	83431	10	15.319	17.654
83358	8	8.843	8.411	83432	11	15.847	17.989
83359	12	14.367	8.725	83433	10	17.366	17.540
83360	10	24.839	8.543	83434	8	17.928	17.800
83361	13	0.073	9.334	83435	8	20.461	17.621
83362	10	5.562	9.994	83436*	42	21.955	17.369
83363	12	8.279	9.983	83437	6	23.879	17.776
83364	6	8.600	9.789	83438	7	1.267	18.857
83365*	30	8.663	9.276	83439	6	2.185	18.456
83366*	19	14.138	9.814	83440	6	8.104	18.489
83367	11	16.241	9.686	83441	20	15.031	18.294
83368	10	20.318	9.009	83442	20	15.542	18.226
83369	12	22.433	9.564	83443	19	15.877	18.077
83370	14	22.870	9.258	83444	7	17.203	18.394
83371	6	2.793	10.014	83445	9	17.387	18.058
83372	13	10.588	10.233	83446	11	19.291	18.083
83373	12	10.819	10.125	83447	10	22.825	18.785
83374	9	16.199	10.963	83448	9	23.666	18.872
83375	9	24.281	10.554	83449	13	24.413	18.983
83376*	42	2.917	11.154	83450	9	24.587	18.199
83377	8	3.026	11.072	83451	24	25.541	18.097
83378	6	6.393	11.789	83452	14	3.592	19.385
83379	13	13.529	11.691	83453	11	8.606	19.186
83380	7	13.657	11.036	83454	11	8.931	19.872
83381	6	15.935	11.386	83455	19	9.422	19.149
83382	7	20.432	11.987	83456	17	9.795	19.814
83383*	30	25.810	11.339	83457*	21	14.638	19.133
83384	9	4.124	12.728	83458	9	15.712	19.924
83385	11	8.927	12.357	83459	10	16.578	19.833
83386	10	10.065	12.572	83460*	29	18.956	19.847
83387	7	13.385	12.865	83461	9	25.093	19.897
83388	20	14.140	12.049	83462	18	0.128	20.655
83389	9	14.732	12.523	83463	8	5.711	20.352
83390	21	16.363	12.398	83464	5	6.844	20.524
83391	7	17.940	12.994	83465	7	13.280	20.732
83392	10	20.393	12.131	83466	6	13.718	20.728
83393	11	23.704	12.397	83467	13	13.965	20.313
83394	10	2.812	13.771	83468	8	15.032	20.949
83395	10	3.069	13.590	83469	11	15.154	20.966
83396	10	8.843	13.677	83470	14	22.673	20.167
83397	8	9.780	13.083	83471	10	22.859	20.241
83398	11	12.542	13.944	83472	18	25.128	20.595
83399	10	14.079	13.755	83473	10	0.957	21.184
83400	10	15.483	13.261	83474	13	7.842	21.395
83401	8	20.057	13.569	83475*	20	8.340	21.741
83402	18	21.088	13.898	83476	11	11.159	21.543
83403	9	23.567	13.821	83477	10	13.362	21.635
83404*	24	24.630	13.358	83478	20	13.714	21.330
83405	7	0.732	14.715	83479	20	14.008	21.105
83406	10	6.483	14.807	83480*	23	16.629	21.560
83407	20	13.482	14.909	83481	8	17.207	21.257
83408	14	15.942	14.772	83482	6	18.281	21.128
83409	6	17.051	14.193	83483	20	18.453	21.008
83410	11	17.598	14.403	83484	8	20.375	21.950
83411	12	18.397	14.393	83485	12	24.554	21.177
83412	9	19.363	14.707	83486	20	3.687	22.398
83413	7	19.727	14.025	83487	13	5.087	22.486
83414	8	20.406	14.236	83488	11	11.508	22.482
83415	10	20.317	15.334	83489	5	13.086	22.905
83416	10	20.767	15.168	83490	18	14.832	22.688
83417	11	3.138	16.359	83491	10	15.030	22.307
83418	20	5.351	16.890	83492	10	18.216	22.438
83419	7	8.069	16.037	83493	10	18.515	22.388
83420	16	12.001	16.152	83494	8	22.217	22.434
83421	7	14.684	16.351	83495	6	22.293	22.716
83422	7	15.968	16.372	83496	10	23.089	22.802
83423	9	16.143	16.061	83497*	20	24.440	22.828
83424*	28	18.757	16.608	83498*	20	3.745	23.475
83425	20	22.192	16.716	83499	12	9.506	23.317
83426*	25	25.926	16.845	83500	7	10.340	23.049
83427	10	6.263	17.129	83501	7	10.584	23.196
83428	7	8.091	17.731	83502	20	11.283	23.331
83429	11	9.214	17.920	83503	13	19.024	23.975
83430	9	15.214	17.051	83504	13	21.694	23.136

83505	11	22.663	23.478
83506	9	4.366	24.377
83507	9	5.849	24.685
83508*	39	6.382	24.743
83509*	32	10.272	24.566
83510	6	11.856	24.680
83511	18	16.436	24.501
83512*	23	20.300	24.021
83513	21	23.783	24.779
83514	20	8.323	25.826
83515	7	13.061	25.184
83516	16	16.577	25.384
83517	8	21.578	25.376

R. A. 13^h 8^m

Plate 2824; 1910 Mar. 29.

Provisional Constants.

A	B	C
-00020	-00834	+2310

D	E	F
+00803	-00018	-2726

Mag. = 16.7 - 1.25 \sqrt{d}

No.	d	x	y
83601	60	0.194	0.143
83602	10	6.864	0.990
83603	16	10.213	0.326
83604	33	4.765	1.363
83605*	42	6.914	1.058
83606	17	8.621	1.913
83607	8	9.531	1.684
83608	12	11.956	1.079
83609	38	11.985	1.643
83610	13	21.409	1.336
83611	29	22.169	1.189
83612	22	24.350	1.874
83613	11	1.889	2.575
83614	16	3.883	2.682
83615	11	9.634	2.047
83616	10	14.368	2.229
83617	10	23.533	2.830
83618	14	4.477	3.998
83619	10	5.087	3.987
83620	26	5.940	3.736
83621	34	12.200	3.449
83622	9	16.273	3.257
83623	13	16.684	3.760
83624	15	18.041	3.582
83625	20	19.089	3.567
83626	22	20.187	3.421
83627	20	20.768	3.836
83628	9	22.482	3.479
83629	16	22.826	3.570
83630	10	3.421	4.766
83631	30	4.214	4.703
83632	10	10.339	4.778
83633	28	15.826	4.207
83634	17	15.868	4.159
83635	8	15.916	4.518
83636	17	17.610	4.009
83637	10	17.632	4.391
83638	12	19.805	4.132

83639	37	1'340	5'053
83640*	56	3'466	5'907
83641	10	6'771	5'749
83642	9	10'732	5'543
83643	14	21'035	5'974
83644	22	22'973	5'978
83645	19	23'816	5'794
83646	17	24'783	5'778
83647	20	4'648	6'637
83648	10	9'129	6'603
83649	11	11'674	6'044
83650	8	11'885	6'670
83651	12	12'212	6'566
83652	31	13'181	6'380
83653	14	16'453	6'767
83654	11	17'674	6'871
83655	11	18'786	6'482
83656	12	19'630	6'430
83657	16	21'637	6'551
83658	8	24'363	6'325
83659	35	0'319	7'350
83660	19	4'121	7'509
83661	10	10'079	7'225
83662	11	12'118	7'839
83663	9	17'420	7'946
83664	11	24'121	7'818
83665	11	2'904	8'290
83666	7	4'037	8'024
83667	10	9'324	8'707
83668	10	12'472	8'462
83669	20	0'513	9'339
83670	21	0'944	9'025
83671	10	7'772	9'803
83672	20	7'877	9'953
83673	9	8'941	9'107
83674	11	9'873	9'052
83675	13	15'762	9'838
83676	19	16'614	9'651
83677	20	19'367	9'563
83678	10	19'387	9'930
83679	7	21'268	9'931
83680*	30	22'870	9'735
83681	11	23'765	9'020
83682	10	2'262	10'925
83683	11	2'372	10'306
83684	20	6'355	10'786
83685	8	8'205	10'397
83686	20	9'323	10'765
83687	17	9'491	10'562
83688*	57	11'310	10'303
83689	10	11'571	10'577
83690	10	13'772	10'402
83691	10	15'039	10'836
83692	11	19'690	10'465
83693	20	23'681	10'248
83694*	36	3'911	11'073
83695	28	6'368	11'846
83696	10	6'549	11'194
83697	11	14'745	11'132
83698	9	23'552	11'505
83699	17	24'347	11'097
83700	15	1'819	12'157
83701	21	5'641	12'161
83702	8	9'086	12'129
83703	12	10'442	12'364
83704	10	10'913	12'037
83705	10	11'307	12'797
83706	18	12'034	12'503
83707	7	15'587	12'305
83708	31	18'234	12'558
83709	7	18'846	12'466
83710	10	24'507	12'231
83711*	38	2'758	13'104
83712	13	7'082	13'865

83713	17	7°641	13°426	83787	11	13°986	18°017	83957	6	15°815	6°219	84031	10	18°813	13°701
83714	16	11°207	13°810	83788	20	14°395	18°259	83958	10	17°084	6°802	84032	13	21°892	13°094
83715	11	11°393	13°969	83789	15	15°818	18°925	83959	16	19°315	6°867	84033	10	24°676	13°965
83716	10	13°517	13°805	83790	11	23°082	18°767	83960	10	22°238	6°070	84034	22	0°421	14°370
83717	9	14°408	13°149	83791	24	0°891	19°941	83961	11	23°217	6°576	84035	16	2°418	14°432
83718	10	15°033	13°694	83792	11	3°308	19°639	83962	24	23°220	6°234	84036	10	3°077	14°179
83719	8	17°164	13°772	83793	12	11°252	19°976	83963	9	5°428	7°191	84037	7	6°604	14°546
83720	11	17°737	13°841	83794	10	13°138	19°115	83964	20	6°138	7°401	84038*	43	8°168	14°455
83721	11	19°614	13°675	83795	11	16°777	19°805	83965	11	7°465	7°679	84039	10	9°080	14°899
83722	9	19°976	13°593	83796	8	18°250	19°758	83966	18	12°789	7°283	84040	10	9°901	14°947
83723	7	21°148	13°189	83797	15	19°100	19°291	83967	7	17°478	7°028	84041	10	10°917	14°986
83724	10	21°339	13°345	83798	11	20°862	19°878	83968	20	17°742	7°268	84042*	46	13°015	14°892
83725	11	21°583	13°166	83799	10	1°077	20°010	83969	20	24°123	7°797	84043	19	13°154	14°332
83726	11	22°538	13°821	83800	21	2°784	20°925	83970	13	24°567	7°754	84044	20	14°967	14°135
83727	9	22°567	13°293	83801	21	3°352	20°336	83971	20	25°003	7°463	84045	7	17°267	14°534
83728	21	23°942	13°576	83802	10	4°159	20°009	83972	11	2°109	8°936	84046	10	18°529	14°871
83729	10	3°403	14°495	83803	9	6°847	20°880	83973	12	7°263	8°257	84047*	37	23°870	14°490
83730	8	4°497	14°024	83804	10	9°275	20°405	83974	14	10°241	8°501	84048	13	24°224	14°981
83731	11	5°433	14°676	83805	11	13°303	20°382	83975	8	10°432	8°441	84049	11	5°335	15°680
83732*	27	5°841	14°387	83806	13	18°397	20°960	83976	7	15°281	8°067	84050	7	11°552	15°126
83733	9	8°362	14°174	83807	19	19°424	20°364	83977	9	18°417	8°026	84051	6	20°246	15°964
83734	16	9°317	14°887	83808	11	19°880	20°984	83978	6	20°525	8°404	84052	19	21°375	15°179
83735*	31	11°278	14°504	83809	19	5°747	21°348	83979	10	21°377	8°369	84053	20	24°540	15°891
83736	19	16°196	14°812	83810	23	6°057	21°796	83980	13	23°429	8°137	84054	10	7°054	16°110
83737	22	20°301	14°831	83811	12	7°621	21°507	83981*	34	1°234	9°675	84055	8	17°768	16°638
83738	7	21°308	14°522	83812	8	9°836	21°466	83982	19	7°737	9°476	84056	11	22°317	16°937
83739	8	21°463	14°493	83813	30	10°168	21°621	83983	12	13°573	9°634	84057	24	23°999	16°187
83740	19	21°932	14°406	83814	20	12°676	21°562	83984	10	16°627	9°941	84058	18	24°765	16°952
83741	18	23°929	14°519	83815	27	13°064	21°607	83985	18	18°893	9°449	84059	9	25°162	16°825
83742	11	24°593	14°288	83816	11	14°416	21°485	83986	20	19°155	9°617	84060	10	3°400	17°586
83743	6	3°589	15°117	83817	10	16°403	21°280	83987	10	20°369	9°144	84061	17	3°883	17°016
83744	12	10°266	15°224	83818*	26	18°956	21°806	83988	8	20°466	9°213	84062	26	6°640	17°430
83745*	31	10°722	15°681	83819	10	19°875	21°269	83989*	26	24°622	9°278	84063	28	6°705	17°615
83746	15	13°855	15°835	83820	13	20°327	21°068	83990	24	2°058	10°167	84064	14	8°384	17°016
83747	11	20°169	15°211	83821	27	23°768	21°698	83991	11	2°747	10°996	84065	17	8°526	17°464
83748	19	20°814	15°174	83822	12	24°073	21°918	83992	8	8°166	10°747	84066	12	10°378	17°136
83749	20	20°945	15°015	83823	13	1°342	22°571	83993	10	9°197	10°761	84067	10	11°337	17°359
83750	12	21°421	15°398	83824*	28	2°693	22°578	83994	12	15°905	10°543	84068	10	11°463	17°201
83751	35	0°364	16°495	83825	9	4°229	22°981	83995*	34	17°600	10°685	84069*	59	16°691	17°662
83752*	32	4°102	16°577	83826	21	7°252	22°440	83996	12	19°097	10°249	84070	10	18°524	17°328
83753	9	5°591	16°083	83827	14	8°617	22°854	83997	8	25°606	10°565	84071	15	21°983	17°651
83754	11	7°357	16°952	83828	17	9°420	22°746	83998	7	1°964	11°426	84072*	36	24°448	17°723
83755	22	9°173	16°703	83829	17	9°536	22°459	83999	23	10°045	11°516	84073	9	24°639	17°833
83756	20	9°175	16°032	83830	12	11°372	22°975	84000	19	11°356	11°441	84074	12	25°974	17°245
83757	9	9°342	16°596	83831	20	12°151	22°085	84001	23	12°582	11°316	84075	10	1°684	18°699
83758*	31	9°659	16°111	83832	11	14°038	22°197	84002	12	14°347	11°092	84076	11	5°822	18°825
83759	7	10°897	16°675	83833	32	21°694	22°446	84003	7	15°287	11°297	84077	20	6°303	18°017
83760	11	10°922	16°281	83834	33	22°829	22°305	84004	9	18°563	11°462	84078	13	7°544	18°576
83761	7	12°788	16°746	83835	9	23°452	22°307	84005	12	18°662	11°130	84079	11	9°263	18°251
83762	12	17°075	16°769	83836	14	0°925	23°253	84006	23	19°518	11°380	84080	8	10°021	18°856
83763*	73	0°131	17°152	83837	12	1°581	23°888	84007	11	19°745	11°776	84081	15	10°941	18°945
83764	9	2°064	17°534	83838	10	7°187	23°792	84008	14	21°934	11°258	84082	9	14°309	18°974
83765	10	2°776	17°948	83839	9	13°131	23°032	84009	9	2°938	12°127	84083	10	15°124	18°049
83766	32	3°732	17°833	83840	14	14°593	23°936	84010*	21	4°715	12°346	84084	10	16°340	18°705
83767	8	4°781	17°994	83841	12	14°659	23°721	84011	11	6°577	12°381	84085	19	17°114	18°701
83768	20	7°251	17°927	83842	10	14°961	23°304	84012	9	7°913	12°238	84086	14	17°191	18°273
83769	16	8°533	17°367	83843	8	16°567	23°574	84013	18	8°418	12°362	84087	9	21°735	18°096
83770	11	10°795	17°029	83844	11	16°629	23°527	84014	20	10°631	12°501	84088	28	21°969	18°957
83771	20	11°282	17°604	83845	24	25°171	23°849	84015	10	12°217	12°319	84089	11	11°198	19°656
83772	19	13°951	17°927	83846	36	2°060	24°539	84016	14	15°053	12°269	84090	13	11°435	19°647
83773	8	16°763	17°818	83847	19	7°612	24°594	84017	20	16°601	12°855	84091			

84105	31	2°452	21°611	84211	11	24°619	0°690	84285	13	17°886	8°400	84359	10	19°068	15°443	84433	10	15°864	23°535
84106	10	2°763	21°823	84212	34	24°825	0°696	84286	9	20°337	8°626	84360	10	20°196	15°081	84434	9	16°795	23°487
84107	14	8°082	21°861	84213	17	25°673	0°813	84287	14	22°606	8°391	84361	10	21°915	15°703	84435	10	18°089	23°227
84108	11	8°448	21°883	84214	35	5°630	1°155	84288*	25	2°768	9°309	84362	10	22°378	15°624	84436	19	19°737	23°147
84109	16	16°481	21°204	84215*	51	6°902	1°734	84289	10	10°787	9°728	84363	30	2°234	16°227	84437	14	5°379	24°391
84110	28	16°497	21°933	84216	13	10°768	1°408	84290	19	11°244	9°202	84364	13	3°009	16°982	84438	10	5°704	24°476
84111	11	17°217	21°111	84217	32	12°547	1°616	84291	8	11°942	9°302	84365	10	3°403	16°851	84439	21	7°491	24°614
84112	22	20°211	21°968	84218*	39	13°041	1°969	84292*	21	12°548	9°499	84366*	32	6°452	16°688	84440	10	7°590	24°574
84113	44	0°398	22°414	84219	10	15°922	1°989	84293	8	13°111	9°128	84367	13	12°393	16°356	84441	19	13°033	24°616
84114	40	1°528	22°243	84220	11	16°093	1°485	84294	11	15°750	9°075	84368	18	14°127	16°189	84442*	45	1°096	25°664
84115	20	5°242	22°829	84221	21	3°592	2°564	84295	10	16°028	9°412	84369	10	19°716	16°117	84443	11	1°324	25°575
84116	20	12°506	22°072	84222	26	7°079	2°830	84296	13	16°905	9°604	84370	11	0°235	17°715	84444*	67	4°289	25°651
84117	10	19°059	22°704	84223	14	7°178	2°370	84297*	40	18°823	9°772	84371*	36	2°702	17°754	84445	15	4°777	25°462
84118	9	20°216	22°725	84224	9	7°594	2°070	84298*	49	19°052	9°822	84372	11	4°219	17°258	84446	11	8°942	25°789
84119	22	22°252	22°312	84225	27	10°007	2°086	84299	8	19°113	9°832	84373	10	9°745	17°516	84447	12	15°091	25°820
84120	21	25°819	22°783	84226	9	11°232	2°424	84300	10	20°978	9°200	84374	14	14°592	17°182	84448	22	25°185	25°614
84121	28	3°911	23°724	84227	17	15°226	2°938	84301	9	23°787	9°464	84375	19	15°453	17°451				
84122	7	5°124	23°937	84228	20	17°743	2°747	84302	7	6°699	10°096	84376	22	15°600	17°065				
84123	20	8°759	23°636	84229	13	20°103	2°374	84303	10	8°796	10°387	84377	11	18°302	17°293				
84124	23	14°115	23°125	84230	21	0°764	3°899	84304*	39	9°852	10°750	84378	10	19°283	17°401				
84125	6	15°421	23°596	84231	15	3°986	3°278	84305	10	10°884	10°220	84379	11	20°855	17°564				
84126	7	19°215	23°997	84232	30	4°972	3°471	84306	12	11°226	10°361	84380	8	24°424	17°142				
84127	18	20°527	23°544	84233	8	14°728	3°526	84307	11	11°652	10°148	84381	20	25°516	17°188				
84128	36	1°152	24°497	84234	9	15°210	3°538	84308	7	13°724	10°383	84382	16	8°041	18°362				
84129	10	7°916	24°376	84235	11	22°166	3°524	84309	10	17°238	10°134	84383	11	11°927	18°228				
84130	9	9°849	24°357	84236	17	23°235	3°467	84310	16	18°087	10°534	84384	13	16°294	18°940				
84131	20	12°537	24°774	84237	19	23°563	3°353	84311	10	19°188	10°065	84385	8	18°419	18°295				
84132	9	13°711	24°745	84238	9	24°082	3°038	84312*	39	25°014	10°844	84386	8	20°353	18°004				
84133	21	17°149	24°652	84239	16	24°224	3°683	84313	8	25°343	10°995	84387	9	23°115	18°763				
84134	10	22°337	24°636	84240	11	6°553	4°472	84314	14	0°102	11°323	84388	28	25°355	18°955				
84135	13	8°394	25°645	84241	11	10°693	4°498	84315	17	7°343	11°774	84389	34	0°238	19°019				
84136	10	8°886	25°644	84242	19	12°948	4°334	84316*	41	10°527	11°868	84390	19	4°357	19°706				
84137	12	12°204	25°672	84243	20	16°015	4°407	84317	19	12°478	11°613	84391	20	7°993	19°189				
84138	13	17°386	25°161	84244	6	18°500	4°164	84318	10	20°222	11°879	84392	11	9°733	19°336				
84139*	37	17°512	25°232	84245	9	18°932	4°091	84319	10	20°327	11°277	84393	20	9°864	19°166				
84140	16	19°396	25°146	84246	19	20°276	4°364	84320	11	22°236	11°225	84394*	32	10°066	19°119				
84141	17	20°111	25°500	84247	20	22°917	4°569	84321	11	22°913	11°189	84395	8	10°371	19°636				
84142*	63	21°548	25°624	84248	19	23°412	4°512	84322*	62	24°321	11°192	84396	10	16°287	19°727				
84143*	34	22°744	25°607	84249	15	2°215	5°857	84323	12	2°402	12°456	84397	9	16°513	19°265				
84144	14	22°975	25°521	84250	40	2°687	5°778	84324	11	3°600	12°081	84398	8	19°299	19°744				
84145*	70	25°940	25°639	84251*	84	3°257	5°334	84325*	31	5°369	12°587	84399	7	23°573	19°087				
				84252	19	3°926	5°845	84326	10	11°320	12°342	84400	8	23°706	19°068				
				84253	23	5°843	5°709	84327	11	13°232	12°646	84401	11	3°657	20°064				
				84254	20	6°411	5°747	84328	9	16°319	12°661	84402	11	4°359	20°112				
				84255	6	6°436	5°546	84329	10	18°151	12°625	84403	9	11°289	20°815				
				84256	7	6°880	5°250	84330	16	18°300	12°577	84404	20	12°157	20°653				
				84257	13	7°578	5°759	84331	11	18°528	12°847	84405	10	13°226	20°272				
				84258	7	8°249	5°237	84332	20	19°031	12°754	84406	10	22°691	20°327				
				84259	10	12°268	5°763	84333	15	19°248	12°490	84407	12	22°715	20°923				
				84260	20	15°012	5°790	84334	11	19°862	12°228	84408	21	24°762	20°478				
				84261	13	17°651	5°360	84335	10	23°035	12°707	84409	22	6°298	21°494				
				84262	17	21°086	5°933	84336	13	25°932	12°102	84410	9	10°984	21°795				
				84263	16	22°583	5°519	84337	14	0°083	13°159	84411	11	20°560	21°236				
				84264	23	1°326	6°282	84338	8	2°886	13°996	84412	11	23°089	21°535				
				84265	22	7°642	6°786	84339	6	11°783	13°899	84413	18	24°317	21°318				
				84266	10	10°810	6°456	84340	11	13°882	13°413	84414	7	24°359	21°294				
				84267	11	12°521	6°271	84341*	20	15°191	13°339	84415	10	24°451	21°483				
				84268	19	13°093	6°945	84342	10	16°629	13°966	84416	34	0°565	22°374				
				84269	12	17°128	6°934	84343	12	19°660	13°205	84417	22	4°139	22°799				
				84270	11	18°154	6°456	84344*	24	20°415	13°581	84418	10	6°856	22°959				
				84271	14	24°749	6°637	84345*	41	2°084	14°531	84419	11	10°627	22°699				
				84272	21	2°251	7°834	84346	10	4°337	14°174	84420	10	10°708	22°612				
				84273	11	2°694	7°786	84347	10	4°616	14°365	84421	20	10°811	22°969				
				84274	19	3°123	7°491	84348	11	7°599	14°424	84422	9	12°167	22°940				
				84275	11	5°194	7°369	84349	10	10°800	14°286	84423	11	14°113	22°781				
				84276	10	12°958	7°427	84350	10	13°801	14°847	84424	10	17°489	22°344				
				84277	20	14°487	7°887	84351	12	18°854	14°704	84425	8	17°742	22°002				
				84278	10	15°483	7°203	84352	10	22°190	14°728	84426	16	19°053	22°444				
				84279	10	17°694	7°427	84353	9	22°869	14°276	84427	13	19°233	22°700				
				84280	13	18°221	7°956	84354	11	2°443	15°015	84428	10	21°675	22°444				
				84281	12	20°378	7°585	84355	20	2°770	15°922	84429	15	22°019	22°662				
				84282	10	21°973	7°478	84356	17	5°811	15°026	84430	20	25°784	22°929				
				84283	11	1°561	8°183												

84536	27	14°574	2°583	84610	21	7°186	7°285	84684	20	0°872	11°195	84758	9	1°472	15°716	84832	24	22°553	19°985
84537	10	16°370	2°809	84611	17	7°734	7°995	84685*	65	2°279	11°186	84759	10	5°374	15°772	84833	12	22°793	19°408
84538	11	16°660	2°563	84612	17	8°825	7°263	84686	10	6°001	11°105	84760	17	5°843	15°951	84834	18	23°762	19°192
84539	29	17°999	2°028	84613	26	8°890	7°476	84687	19	8°798	11°279	84761	16	5°884	15°150	84835	17	0°717	20°334
84540	13	19°277	2°736	84614	10	9°877	7°965	84688	8	10°076	11°917	84762	20	6°530	15°027	84836	19	0°748	20°928
84541	30	23°722	2°926	84615	30	10°237	7°453	84689	10	10°685	11°819	84763	21	10°147	15°258	84837	25	2°792	20°469
84542	16	0°064	3°533	84616	12	10°914	7°392	84690	10	10°967	11°936	84764	10	12°065	15°006	84838	12	6°107	20°820
84543	28	1°133	3°468	84617	10	13°508	7°904	84691	11	13°489	11°688	84765	13	13°614	15°134	84839	13	10°564	20°638
84544	22	1°461	3°351	84618	8	15°647	7°871	84692	10	13°761	11°369	84766	21	14°099	15°382	84840	11	10°863	20°584
84545	15	1°976	3°034	84619	17	17°344	7°760	84693	9	14°612	11°557	84767*	31	14°844	15°704	84841	19	12°777	20°115
84546	20	2°123	3°676	84620	21	18°247	7°386	84694	13	15°898	11°124	84768	10	16°797	15°006	84842	18	13°158	20°722
84547	17	4°057	3°463	84621	10	19°033	7°554	84695	10	15°935	11°125	84769	9	17°904	15°278	84843	10	14°352	20°107
84548	10	4°307	3°375	84622	10	19°648	7°787	84696	20	16°782	11°367	84770	10	19°813	15°333	84844	10	15°823	20°996
84549	11	4°834	3°076	84623	10	20°082	7°640	84697	7	17°957	11°594	84771	12	19°968	15°351	84845	10	15°944	20°765
84550	11	4°965	3°330	84624	7	20°573	7°524	84698	22	18°123	11°543	84772	10	23°059	15°295	84846	15	18°808	20°467
84551	11	10°644	3°569	84625	13	21°254	7°996	84699	20	18°464	11°957	84773	22	23°098	15°429	84847	19	20°722	20°110
84552	10	11°867	3°728	84626	12	25°766	7°829	84700	17	18°482	11°394	84774	23	25°184	15°183	84848	10	22°145	20°309
84553	11	12°787	3°476	84627	22	0°544	8°397	84701	11	22°316	11°143	84775	21	25°887	15°039	84849	11	22°581	20°517
84554	20	17°835	3°730	84628	10	1°287	8°456	84702	18	22°406	11°104	84776	9	2°511	16°333	84850	10	23°023	20°026
84555	21	19°597	3°366	84629	8	9°394	8°818	84703	21	24°504	11°823	84777	10	4°777	16°546	84851	18	23°444	20°135
84556	40	24°976	3°060	84630	18	11°477	8°439	84704	12	1°004	12°710	84778*	40	8°735	16°612	84852	20	25°727	20°691
84557	21	25°478	3°742	84631	7	12°626	8°254	84705	8	3°085	12°487	84779	25	13°791	16°761	84853	21	1°126	21°540
84558	25	0°824	4°573	84632	19	13°080	8°064	84706	19	3°896	12°083	84780	10	17°207	16°331	84854	20	2°352	21°314
84559	23	1°317	4°511	84633	11	13°265	8°147	84707	10	7°523	12°265	84781	10	22°577	16°138	84855	10	2°395	21°287
84560	31	4°678	4°201	84634	12	14°091	8°263	84708	11	9°857	12°316	84782	25	24°056	16°462	84856	10	2°487	21°476
84561	10	6°920	4°564	84635	11	14°193	8°867	84709	11	10°984	12°567	84783	14	25°267	16°311	84857	11	3°244	21°530
84562	11	7°389	4°343	84636	10	15°228	8°466	84710	8	11°177	12°351	84784	12	25°377	16°503	84858	10	8°515	21°639
84563	21	8°517	4°807	84637	20	16°663	8°204	84711	10	11°322	12°885	84785	11	2°428	17°134	84859	10	9°843	21°894
84564	20	9°666	4°707	84638*	50	19°104	8°552	84712	13	13°664	12°677	84786	25	3°521	17°173	84860	17	13°335	21°773
84565	10	11°509	4°683	84639	17	21°304	8°788	84713	18	16°068	12°380	84787	22	5°386	17°111	84861	12	13°682	21°918
84566	21	11°825	4°217	84640	27	23°572	8°893	84714	10	18°055	12°644	84788	18	6°600	17°473	84862	18	13°822	21°601
84567	19	13°037	4°648	84641	12	24°149	8°117	84715	8	18°550	12°005	84789*	31	6°939	17°963	84863	8	14°346	21°825
84568	20	13°105	4°155	84642	14	25°734	8°216	84716	10	23°906	12°042	84790	8	7°916	17°923	84864	11	14°573	21°955
84569	11	14°473	4°845	84643	12	1°732	9°461	84717	10	25°487	12°456	84791	12	8°047	17°334	84865	10	15°001	21°716
84570	8	15°282	4°503	84644	10	3°112	9°117	84718	10	3°160	13°011	84792	10	8°554	17°213	84866	20	15°817	21°178
84571	20	15°556	4°429	84645	10	3°727	9°807	84719	22	4°354	13°699	84793	21	10°426	17°326	84867	20	21°608	21°951
84572	16	15°946	4°950	84646	10	4°306	9°006	84720	20	5°687	13°546	84794	10	11°438	17°707	84868	10	21°611	21°924
84573	20	18°727	4°528	84647*	28	6°454	9°417	84721	10	8°093	13°863	84795	20	16°551	17°519	84869	11	23°831	21°248
84574	15	19°186	4°096	84648	18	7°988	9°389	84722	20	9°347	13°701	84796	10	17°599	17°770	84870	26	0°066	22°673
84575	19	22°834	4°453	84649	8	15°376	9°874	84723	10	9°449	13°949	84797	11	21°970	17°528	84871	10	2°789	22°145
84576	20	23°463	4°635	84650	9	15°819	9°943	84724	7	10°846	13°264	84798	10	22°196	17°259	84872	22	3°833	22°911
84577	10	25°785	4°633	84651	10	16°622	9°430	84725	11	12°105	13°395	84799	27	23°189	17°186	84873	20	5°332	22°339
84578	20	0°498	5°524	84652	20	17°112	9°576	84726	15	13°404	13°161	84800	19	24°804	17°450	84874	10	5°557	22°173
84579	11	2°893	5°926	84653*	40	18°927	9°967	84727	8	16°579	13°546	84801	11	24°806	17°987	84875	12	6°383	22°507
84580	10	12°637	5°316	84654	8	19°761	9°098	84728	11	17°977	13°541	84802	17	25°808	17°597	84876	30	10°925	22°965
84581	10	15°246	5°460	84655	7	20°472	9°573	84729	13	18°134	13°700	84803	13	1°133	18°766	84877	10	11°941	22°197
84582	13	15°714	5°847	84656	16	21°051	9°308	84730	8	18°288	13°905	84804	12	3°229	18°757	84878	8	12°100	22°076
84583	13	20°595	5°858	84657	21	21°649	9°187	84731	12	18°700	13°314	84805	11	3°250	18°271	84879	19	12°691	22°679
84584	11	22°529	5°267	84658	22	22°384	9°800	84732	18	19°232	13°344	84806	32	3°376	18°942	84880	7	13°047	22°765
84585	14	23°108	5°092	84659	9	2°638	10°202	84733	19	21°142	13°375	84807	10	6°775	18°724	84881	12	17°494	22°148
84586	19	25°053	5°546	84660*	40	2°972	10°832	84734*	36	21°309	13°313	84808	10	7°684	18°601	84882	18	18°801	22°634
84587	20	2°673	6°628	84661	14	3°302	10°984	84735	8	22°278	13°556	84809	8	9°009	18°308	84883	10	22°663	22°504
84588	12	2°717	6°357	84662	19	3°976	10°722	84736	10	0°176	14°737	84810	19	10°031	18°585	84884	18	22°824	22°589
84589	7	2°894	6°625	84663	18	5°702	10°356	84737	11	0°853	14°282	84811	10	13°106	18°366	84885	22	24°116	22°144
84590	11	6°604	6°222	84664	10	5°988	10°615	84738	9	6°787	14°905	84812	11	14°413	18°257	84886	12	2°803	23°396
84591	8	9°655	6°831	84665	10	6°811	10°845	84739	14	7°394	14°078	84813	9	15°758	18°680	84887	10	3°479	23°008
84592	25	10°454	6°467	84666	10	6°922	10°735	84740	10	8°014	14°645	84814	9	17°805	18°195	84888	13	6°251	23°198
84593	9	10°533	6°138	84667	18	7°357	10°276	84741	30	9°092	14°109	84815	18	19°160	18°869	84889	12	10°264	23°756
84594*	41	11°311	6°157	84668	13	10°843	10°397	84742	30	9°216	14°771	84816	11	21°720	18°187	84890	10	13°322	23°295
84595	16	11°458	6°576	84669	8	11°180	10°668	84743	9	10°265	14°505	84817	20	22°360	18°251	84891	11	15°059	23°883
84596	10	11°954	6°833	84670	9	11°632	10°361	84744*	60	13°724	14°305	84818	10	24°484	18°008	84892	10	15°217	23°953
84597	15	12°766	6°243	84671	10	13°375	10°717	84745	10	13°813	14°175	84819	17	25°841	18°963	84893	21	15°382	23°712
84598	20	13°971	6°284	84672	10	15°443	10°564	84746	1										

84906	12	21'427	24'064	85042	13	16'950	4'621	85116	10	24'066	9'114	85190	10	21'653	14'666	85264	10	13'632	20'734
84907	9	21'553	24'148	85043	22	17'629	4'125	85117*	27	25'683	9'981	85191	10	21'796	14'230	85265	9	14'105	20'952
84908	30	3'254	25'603	85044	11	20'458	4'169	85118	10	2'599	10'612	85192	18	24'444	14'605	85266	10	14'106	20'485
84909	26	5'130	25'036	85045	10	25'093	4'501	85119	34	4'245	10'634	85193	27	1'624	15'329	85267	16	14'426	20'556
84910	11	9'172	25'985	85046	18	3'412	5'417	85120	12	5'097	10'609	85194	24	3'706	15'048	85268	12	19'009	20'724
84911	18	9'617	25'624	85047	9	4'134	5'333	85121	16	5'600	10'529	85195	11	7'738	15'034	85269	13	19'010	20'933
84912	9	11'845	25'015	85048	18	5'711	5'024	85122	18	6'473	10'855	85196	17	8'233	15'317	85270	28	0'241	21'875
84913	10	15'825	25'395	85049	8	7'383	5'003	85123	23	9'796	10'227	85197	26	9'014	15'247	85271	31	6'778	21'813
84914	21	23'024	25'097	85050	10	7'985	5'125	85124	10	10'111	10'975	85198	12	10'024	15'385	85272	21	9'200	21'060
84915	23	24'168	25'258	85051	20	9'547	5'047	85125	14	10'487	10'285	85199	10	13'620	15'165	85273	9	12'146	21'791
				85052	10	9'910	5'776	85126	20	14'431	10'418	85200	19	18'345	15'764	85274	22	14'197	21'368
				85053	19	11'056	5'151	85127	18	15'126	10'784	85201	26	2'597	16'347	85275	11	14'763	21'416
				85054	12	11'217	5'681	85128*	22	16'545	10'248	85202	13	3'807	16'177	85276	19	16'114	21'076
				85055	11	14'512	5'748	85129	14	16'614	10'913	85203	11	3'921	16'366	85277	22	17'403	21'314
				85056	12	16'189	5'596	85130	9	18'463	10'576	85204	9	6'203	16'347	85278	10	17'692	21'947
				85057	15	18'688	5'335	85131	19	18'563	10'040	85205	17	9'313	16'892	85279	12	18'967	21'102
				85058	11	19'547	5'884	85132	24	19'818	10'934	85206	9	11'361	16'284	85280	9	21'433	21'337
				85059	16	20'426	5'837	85133	11	23'907	10'936	85207*	31	11'517	16'253	85281	11	23'701	21'262
				85060	21	0'012	6'404	85134	10	24'972	10'265	85208	16	14'503	16'234	85282*	46	23'934	21'027
				85061	14	4'971	6'277	85135	35	25'731	10'742	85209	18	15'179	16'064	85283	31	23'966	21'455
				85062	8	7'721	6'188	85136	14	0'766	11'054	85210	28	1'744	17'085	85284	20	25'117	21'751
				85063	11	8'433	6'543	85137	18	0'858	11'016	85211	21	3'359	17'324	85285	18	25'278	21'842
				85064	9	9'891	6'449	85138	19	3'005	11'701	85212	11	3'373	17'859	85286	13	1'464	22'493
				85065	23	12'769	6'324	85139	18	6'069	11'640	85213	15	4'367	17'454	85287	26	2'753	22'027
				85066	14	12'989	6'108	85140	10	6'107	11'123	85214	18	4'535	17'942	85288	29	4'912	22'563
				85067	13	13'360	6'759	85141	10	6'977	11'974	85215	28	6'450	17'902	85289	11	7'884	22'809
				85068	9	13'623	6'353	85142	10	7'214	11'572	85216	15	8'024	17'338	85290	10	8'738	22'952
				85069	17	16'062	6'348	85143	12	7'729	11'433	85217	11	8'332	17'071	85291*	42	11'827	22'251
				85070	12	18'187	6'992	85144	17	8'057	11'909	85218	28	9'108	17'547	85292	11	12'866	22'616
				85071	20	19'941	6'171	85145*	38	9'372	11'167	85219	20	9'373	17'166	85293	17	13'700	22'013
				85072	9	20'928	6'134	85146	16	13'433	11'370	85220*	32	9'754	17'876	85294	8	17'494	22'314
				85073	10	23'585	6'462	85147	13	17'764	11'271	85221	13	11'028	17'251	85295*	22	18'322	22'469
				85074	35	24'074	6'270	85148	11	20'385	11'685	85222	17	11'335	17'953	85296	13	19'699	22'179
				85075	15	4'162	7'687	85149	10	20'856	11'574	85223	10	14'458	17'907	85297	28	20'417	22'415
				85076	16	4'911	7'874	85150	10	23'009	11'776	85224	9	16'075	17'645	85298	23	22'234	22'783
				85077	10	7'838	7'385	85151	23	23'527	11'703	85225	10	16'554	17'208	85299	21	24'083	22'979
				85078	11	8'959	7'984	85152*	42	24'029	11'175	85226	10	17'104	17'772	85300	11	1'612	23'901
				85079	20	9'302	7'630	85153	26	24'424	11'460	85227	11	18'928	17'275	85301	10	5'231	23'160
				85080	25	16'659	7'059	85154	10	5'778	12'514	85228	22	21'167	17'473	85302	10	7'346	23'716
				85081	11	17'114	7'103	85155	11	8'063	12'363	85229	19	21'436	17'826	85303	12	8'472	23'572
				85082	20	18'019	7'943	85156	18	12'196	12'125	85230	11	22'700	17'952	85304	9	14'548	23'329
				85083	20	18'119	7'845	85157	9	17'875	12'669	85231	13	22'807	17'097	85305	15	14'749	23'217
				85084*	32	23'147	7'869	85158	10	18'489	12'676	85232	22	0'931	18'165	85306	20	15'180	23'104
				85085*	36	24'124	7'538	85159	10	19'344	12'549	85233	13	4'423	18'817	85307	23	17'431	23'553
				85086	14	24'848	7'905	85160	9	22'238	12'005	85234	11	8'993	18'668	85308	10	1'705	24'999
				85087	30	1'985	8'786	85161	10	22'381	12'832	85235	19	10'243	18'955	85309	9	14'105	24'076
				85088	15	4'136	8'075	85162	10	10'966	13'404	85236	15	10'265	18'657	85310	10	14'497	24'885
				85089	29	5'077	8'144	85163	20	11'273	13'204	85237	18	12'954	18'283	85311	22	14'598	24'814
				85090	24	5'651	8'028	85164	31	12'209	13'937	85238	8	14'565	18'615	85312	10	14'823	24'423
				85091	11	5'843	8'816	85165	17	13'237	13'935	85239	15	15'424	18'713	85313	11	15'505	24'947
				85092	10	7'310	8'807	85166	10	15'254	13'242	85240	29	16'267	18'011	85314	13	21'112	24'666
				85093	8	11'130	8'355	85167	25	15'849	13'431	85241	15	18'206	18'132	85315	24	2'338	25'929
				85094	8	11'352	8'854	85168	10	16'876	13'777	85242	21	18'557	18'603	85316	27	2'862	25'138
				85095	21	13'417	8'838	85169	15	18'247	13'463	85243	12	21'326	18'952	85317	10	4'879	25'369
				85096*	31	17'942	8'722	85170	10	19'835	13'845	85244	18	23'244	18'601	85318	14	11'838	25'723
				85097*	36	21'966	8'221	85171	29	20'942	13'543	85245	15	23'868	18'076	85319	35	12'422	25'927
				85098	25	23'829	8'916	85172	10	21'667	13'874	85246	29	1'152	19'894	85320	35	13'630	25'290
				85099	11	24'707	8'673	85173	17	1'922	14'887	85247	17	2'350	19'080	85321	11	14'479	25'045
				85100	25	0'070	9'110	85174	20	2'063	14'728	85248	15	8'199	19'032	85322	10	18'202	25'584
				85101	26	0'812	9'713	85175	9	3'068	14'753	85249	13	12'322	19'676				
				85102	15	6'145	9'983	85176*	25	3'144	14'862	85250	19	14'213	19'141				
				85103*	36	6'639	9'365	85177	18	4'405	14'895	85251	20	14'219	19'919				
				85104	9	6'761	9'712	85178	17	10'829	14'105	85252	8	17'204	19'313				
				85105	17	7'436	9'084	85179	16	11'056	14'232	85253	9	17'353	19'892				
				85106	13	9'878	9'307	85180	8	11'211	14'163	85254	10	18'267	19'853				
				85107	10	12'417	9'405	85181	15	12'968	14'047	85255	18	23'539	19'109				
				85108	14	14'278	9'797	85182*	32	13'707	14'525	85256	10	23'771	19'138				
				85109	13	14'330	9'849	85183	9	14'221	14'788	85257	17	1'188	20'427				
				85110	18	15'280	9'013	85184	13	16'974	14'663	85258	15	2'047	20'029				
				85111*	20	17'194	9'501	85185	11	17'402	14'301	85259	20	4'339	20'548				

85753	8	13.492	23.031	85829	13	19.467	2.942	85903	10	16.143	8.422	85977*	40	20.329	13.898	86051	18	22.196	19.719
85754	22	14.472	23.498	85830	13	20.653	2.686	85904	9	17.422	8.327	85978	13	23.073	13.695	86052	13	25.275	19.358
85755	19	14.753	23.132	85831	15	22.503	2.147	85905*	26	20.648	8.625	85979	10	23.341	13.030	86053	9	25.793	19.067
85756	10	15.477	23.059	85832	19	22.551	2.555	85906	8	22.073	8.392	85980	12	23.370	13.306	86054	9	1.845	20.864
85757	21	18.115	23.401	85833	21	22.864	2.360	85907	20	22.214	8.208	85981	30	0.221	14.584	86055	14	2.651	20.244
85758	28	19.004	23.137	85834	24	24.094	2.247	85908	32	0.326	9.256	85982*	34	1.354	14.170	86056	18	4.017	20.586
85759	22	7.363	24.685	85835	10	4.344	3.414	85909	9	5.777	9.773	85983*	30	3.628	14.847	86057	11	5.348	20.392
85760	20	12.024	24.534	85836	9	4.637	3.556	85910	18	6.067	9.915	85984	11	8.173	14.674	86058	16	6.429	20.298
85761	15	12.542	24.613	85837	22	4.757	3.364	85911	8	7.319	9.141	85985*	45	8.463	14.993	86059	20	8.310	20.961
85762	8	14.290	24.126	85838	19	6.905	3.122	85912	9	10.761	9.417	85986	10	10.109	14.432	86060	18	9.081	20.462
85763	10	14.593	24.182	85839	17	9.123	3.114	85913*	30	11.078	9.382	85987	10	12.656	14.884	86061	16	10.983	20.216
85764	11	17.482	24.224	85840	12	14.030	3.490	85914	17	12.246	9.062	85988	10	19.735	14.477	86062	9	13.269	20.837
85765	8	19.051	24.865	85841	24	15.811	3.098	85915	10	12.617	9.348	85989	12	22.117	14.833	86063	20	17.341	20.448
85766	19	20.134	24.829	85842	10	17.073	3.793	85916	15	14.200	9.402	85990	9	3.497	15.022	86064	11	20.823	20.586
85767	18	24.564	24.696	85843	13	19.764	3.067	85917	9	14.442	9.986	85991	8	8.185	15.147	86065	17	1.922	21.687
85768	9	7.383	25.845	85844	13	23.755	3.379	85918	11	15.928	9.714	85992	18	14.416	15.142	86066	11	9.118	21.141
85769	11	11.538	25.014	85845	28	0.885	4.330	85919	18	18.866	9.894	85993	11	16.413	15.364	86067	21	9.839	21.576
85770	13	11.573	25.087	85846	19	5.396	4.175	85920	10	19.960	9.275	85994	19	20.248	15.603	86068	19	10.295	21.859
85771	12	14.478	25.354	85847	13	7.088	4.713	85921	8	21.193	9.146	85995	20	22.344	15.202	86069*	28	10.699	21.527
85772	13	20.337	25.423	85848	12	8.076	4.864	85922	21	21.283	9.733	85996	34	0.333	16.156	86070*	22	12.790	21.238
85773	10	21.343	25.600	85849	24	9.477	4.506	85923	9	21.329	9.354	85997	11	2.367	16.641	86071	9	13.624	21.760
85774	20	23.079	25.279	85850	13	10.278	4.144	85924	9	22.735	9.534	85998	13	3.064	16.144	86072	18	13.795	21.384
85775	11	24.893	25.797	85851	10	10.579	4.318	85925	17	25.050	9.648	85999	8	6.607	16.059	86073	11	16.234	21.829
				85852	20	12.928	4.281	85926*	44	9.902	10.285	86000	22	7.796	16.745	86074	7	16.741	21.747
				85853	13	14.182	4.550	85927	18	10.215	10.876	86001	9	9.123	16.330	86075	11	22.281	21.244
				85854	20	17.470	4.763	85928	14	10.399	10.602	86002*	38	9.931	16.108	86076	22	4.738	22.616
				85855	19	19.381	4.216	85929	11	13.132	10.237	86003*	23	11.095	16.734	86077	19	7.394	22.451
				85856	18	21.356	4.742	85930	18	15.266	10.376	86004	20	16.287	16.976	86078	11	8.300	22.617
				85857	15	21.638	4.941	85931	10	16.732	10.361	86005	10	16.881	16.159	86079	10	9.796	22.154
				85858	19	21.698	4.950	85932	13	17.036	10.145	86006	8	18.530	16.258	86080*	32	11.225	22.603
				85859	21	22.934	4.850	85933	10	17.335	10.389	86007	10	19.579	16.036	86081	10	12.267	22.325
				85860	20	24.142	4.471	85934	15	20.407	10.966	86008	20	20.131	16.915	86082	11	13.436	22.444
				85861	18	25.849	4.871	85935	11	20.975	10.438	86009	10	20.243	16.447	86083	12	14.587	22.702
				85862	21	7.281	5.329	85936	21	21.119	10.996	86010	7	21.825	16.752	86084*	38	14.648	22.996
				85863	11	15.307	5.030	85937*	30	24.702	10.168	86011	19	23.022	16.857	86085	15	15.119	22.964
				85864	10	20.250	5.906	85938	11	1.674	11.432	86012	20	23.287	16.063	86086	10	15.673	22.340
				85865	20	20.364	5.754	85939	19	1.875	11.844	86013	12	24.027	16.673	86087	18	16.295	22.224
				85866	11	22.976	5.516	85940	9	2.949	11.359	86014*	34	3.384	17.739	86088	11	22.940	22.467
				85867	9	23.685	5.958	85941	14	4.110	11.364	86015*	32	5.757	17.794	86089	20	23.173	22.704
				85868	13	1.489	6.652	85942	19	10.549	11.870	86016	11	5.846	17.340	86090	11	25.878	22.025
				85869	13	3.746	6.995	85943	9	13.827	11.142	86017	8	7.793	17.423	86091	13	6.057	23.188
				85870	16	4.869	6.122	85944	8	14.683	11.007	86018	9	7.798	17.736	86092	19	9.992	23.531
				85871	11	5.050	6.971	85945	10	15.310	11.053	86019	23	8.312	17.614	86093	15	10.614	23.359
				85872	14	6.397	6.324	85946	23	17.219	11.130	86020	9	8.894	17.309	86094	17	11.749	23.152
				85873*	40	6.631	6.061	85947	20	22.464	11.474	86021	9	9.793	17.943	86095	11	13.230	23.957
				85874	12	8.739	6.145	85948	13	23.611	11.490	86022	10	12.407	17.608	86096	10	13.743	23.145
				85875	13	12.426	6.918	85949	25	2.773	12.563	86023	9	14.014	17.212	86097	8	16.487	23.254
				85876	19	13.310	6.857	85950	17	3.739	12.491	86024	11	14.311	17.589	86098	19	17.709	23.907
				85877	10	14.732	6.489	85951	7	7.833	12.084	86025	19	16.556	17.886	86099	10	22.038	23.118
				85878	29	17.186	6.867	85952	9	8.373	12.150	86026	10	16.856	17.543	86100	21	24.460	23.679
				85879	11	17.439	6.109	85953	8	9.169	12.430	86027	21	18.043	17.347	86101	19	24.776	23.128
				85880	17	20.056	6.629	85954	13	12.217	12.194	86028	9	18.583	17.344	86102	11	25.816	23.065
				85881	19	20.871	6.532	85955	15	13.081	12.399	86029	18	3.255	18.937	86103	21	3.068	24.503
				85882	13	23.931	6.232	85956	10	15.484	12.290	86030*	41	4.595	18.670	86104	20	4.957	24.381
				85883	13	1.818	7.607	85957	20	18.992	12.534	86031	15	7.571	18.537	86105	11	6.495	24.138
				85884	10	5.564	7.576	85958	7	21.840	12.667	86032	12	10.466	18.651	86106	19	11.083	24.866
				85885	17	6.403	7.598	85959	9	22.116	12.889	86033	10	10.515	18.043	86107	7	12.525	24.311
				85886	8	9.225	7.246	85960	21	23.248	12.764	86034	21	11.153	18.358	86108	25	12.707	24.408
				85887	10	9.761	7.885	85961	10	23.587	12.475	86035	13	16.393	18.336	86109	24	17.659	24.167
				85888	9	1													

UNIVERSITY OBSERVATORY, OXFORD.

ASTROGRAPHIC CATALOGUE, 1900·0.

ZONE + 25°.

STANDARD CO-ORDINATES

OF

THE STARS IN THE CATALOGUE OF THE
ASTRONOMISCHE GESELLSCHAFT

(CAMBRIDGE AND BERLIN).

EXPLANATION OF THE COLUMNS.

Oxford No.—This is the number assigned in the preceding catalogue of measures of plates taken at Oxford (see note immediately preceding this catalogue). Every star occurs on two or more plates and has a separate Oxford number for each plate. Thus Cambridge No. 14440 is Oxford 25°·288 (on plate $0^h 4^m + 25^\circ$), Oxford 26°·87 (on plate $0^h 0^m + 26^\circ$), and Oxford 27°·1 (on plate $0^h 4^m + 27^\circ$). Hence for the complete specification of a star, the zone must be indicated as well as the number. The centre of the Oxford plate usually differs a little from the theoretical centre, and a star for which standard co-ordinates have been calculated may then fall outside the *réseau*; in such cases no Oxford number can be assigned, but the co-ordinates are printed nevertheless, as they may be useful for plates taken in the future.

Cambridge or Berlin No. and Mag.—These columns require no explanation; but the stars in the Cambridge Appendix (p. 299), with a few exceptions, have not been used, as they were not available when these computations were made, about 1895–6. On the other hand, a number of cases where a substantial correction was required to the Cambridge place (as determined by discussions at Cambridge and Oxford in 1906) have been included. Such cases usually have a letter *a* (sometimes *b*) following the Cambridge number. A list of adopted Cambridge R.A.s and Decs. for these stars is given in Vol. III. p. 223, Vol. IV. p. 233, Vol. V. p. 229, Vol. VI. p. 253, and at the end of this volume.

Standard Co-ordinates.—This name was proposed (*Monthly Notices of the Royal Astronomical Society*, Vol. LIV. p. 11) for co-ordinates on an ideal plate fulfilling the following conditions:—

- (i.) Plate truly centred and oriented for 1900·0.
- (ii.) No refraction and aberration.
- (iii.) A suitable unit of length adopted.

The formulæ giving these co-ordinates are:—

$$\begin{aligned}\xi &= k \tan (\alpha - A) \sec (\theta - D) \cos \theta \\ \eta &= k \tan (\theta - D) \\ \text{where } \tan \theta &= \sec (\alpha - A) \tan \delta \\ \text{where } \alpha, \delta &\text{ are the R.A. and Dec. of the star,} \\ A, D &\text{ are the R.A. and Dec. of the plate centre,}\end{aligned}$$

and *k* depends on the adopted unit of length. For the Astrographic Catalogue, the unit chosen is 5' at the plate centre, and $k = 687\cdot549$.

For the calculation of ξ and η , approximate formulæ were used and reduced to tables. To avoid negative signs, the constant 13·0000 has been added to all the values of ξ and η to form

$$\xi' = \xi + 13, \qquad \eta' = \eta + 13$$

and the quantities ξ' and η' are given in the following Catalogue. The co-ordinates are thus referred to a corner of the *réseau* and not to the plate centre.

The Right Ascensions and Declinations used are those of the Cambridge or Berlin Catalogues brought up from 1875·0 to 1900·0 with the precessions and secular variations given in those Catalogues without any application of proper motions. For determining plate constants *provisional* proper motions have been applied in some cases where they were satisfactorily known; but as it appears probable that these may soon be determined more accurately, it was thought better to await further investigation before making any corrections to the following standard co-ordinates.

The co-ordinates here printed thus represent simply the places printed in the Cambridge or Berlin Catalogues. In the course of the work some errors were found in the Catalogues, especially in cases of a single meridian observation only. Sometimes, for instance, the meridian declination is 1° in error, and there is *no* star near the catalogue place. The “standard co-ordinates” will then be quite erroneous and cannot be corrected in any simple way; they must be re-computed, and this has been done in some cases in which definite information was available (see above). Outstanding cases are reserved for tabulation and discussion in the last volume.

Cambridge or Berlin A. G. C.					Cambridge or Berlin A. G. C.					Cambridge or Berlin A. G. C.				
Oxford No.	Number.	Mag.	1900°0.		Oxford No.	Number.	Mag.	1900°0.		Oxford No.	Number.	Mag.	1900°0.	
+25°.			ξ'.	η'.	+25°.			ξ'.	η'.	+25°.			ξ'.	η'.
Plate 250. R.A. 0 ^h 4 ^m					R.A. 0 ^h 12 ^m (continued)					Plate 875. R.A. 0 ^h 28 ^m				
...	B 9201	9.2	0.4666	2.7837	683	C 130	8.5	18.7179	18.6430	1800	C 251	9.3	0.4360	15.9794
12	B 9202	9.0	1.0692	2.7820	805	C 131	7.4	18.8485	23.8023	1801	C 254	9.4	1.5647	15.9065
288	C 14440	9.5	3.7938	24.7097	357	B 69	8.7	18.9363	3.5290	1707	C 255	9.2	1.5744	10.9196
4	B 9205	7.0	4.2392	1.1774	343	B 70	8.6	19.4212	3.1918	2004	C 263	8.0	2.6441	24.3521
35	B 9206	7.3	4.5385	5.3490	333	B 72	9.2	20.9806	2.0875	1586	B 127	7.5	2.8267	5.0021
249	C 9	9.5	6.7999	19.9147	346	B 73	7.4	21.3367	2.3519	1529	B 130	8.8	4.5354	1.6903
197	C 10	9.5	6.9875	16.5782	827	C 146	8.0	22.5618	24.5244	2006	C 277	9.0	7.7402	24.1177
283	C 12	7.2	8.1740	23.7811	397	B 78	8.6	23.5019	5.9554	1789	C 285	9.0	9.2471	14.8358
226	C 14	9.4	9.6975	17.8801	503	B 79	7.1	23.7767	10.4391	1772	C 296	9.0	10.3286	13.9651
108	B 7	8.5	10.3553	9.9390	546	C 155	9.0	24.0294	12.6706	1828	B 145	8.8	10.3482	16.2805
38	B 9	8.7	11.2708	5.3097	601	C 156	8.8	24.0988	14.5863	1809	C 302	9.3	11.0326	15.5329
241	C 21	9.5	11.6085	19.3938	347	B 83	8.7	24.5840	2.6443	1561	B 152	8.8	11.5544	3.1820
121	B 12	6.9	12.1900	11.8549						1760	C 311	9.2	13.7437	12.8852
227	C 23	9.3	12.3016	18.5112	Plate 874. R.A. 0 ^h 20 ^m					1959	C 318	9.4	14.6099	21.4464
228	C 25	8.8	13.1002	18.7665	1435	C 146	8.0	0.9782	24.5432	1745	B 156	8.2	14.6423	11.7579
97	B 15	7.8	13.2316	9.7600	1000	B 78	8.6	1.6445	5.9648	1539	B 158	9.0	15.3263	2.1478
40	B 19	9.1	13.6037	5.1697	1125	B 79	7.1	1.9854	10.4407	1564	B 160	9.1	15.8251	2.7281
76	B 20	8.3	15.5510	8.6938	1169	C 155	9.0	2.2708	12.6683	1833	C 324	9.5	16.2185	16.6433
131	B 21	8.9	15.8832	12.6451	1223	C 156	8.8	2.3685	14.5827	1907	C 328	9.0	16.9485	19.2026
33	B 23	8.8	17.4795	4.1691	935	B 83	8.7	2.6776	2.6354	1999	C 329	8.1	17.4015	23.7283
277	C 36	9.3	18.2804	22.3896	1092	B 85	9.0	4.3187	9.6606	1882	C 330	9.5	17.5531	18.9546
68	B 28	9.2	21.1885	7.1931	937	B 86	7.4	4.9897	2.5222	1668	B 168	7.7	18.8384	7.6600
8	B 31	8.6	22.2602	1.9931	901	B 87	9.2	5.9051	1.1288	1517	B 169	8.6	18.9846	0.6132
103	B 32	9.2	23.0219	9.7263	1197	C 171	9.3	5.9310	13.7666	1796	C 340	9.2	19.7522	14.2921
279	C 57	9.5	23.4326	22.4220	902	B 90	8.7	6.1384	1.2028	1779	C 341	9.1	19.9059	13.4865
280	C 60	9.0	23.9271	22.4770	1229	C 175	9.1	6.8478	15.0780	1941	C 351	8.2	21.3517	20.3225
210	C 61	8.6	24.2900	16.1646	1231	C 176	9.0	7.1017	14.2521	1691	B 178	8.0	22.6926	8.4646
156	C 67	9.0	25.6579	13.0039	965	B 94	8.8	8.0914	4.1348	1944	C 356	8.8	22.9302	20.5926
Plate 873. R.A. 0 ^h 12 ^m					1073	B 95	9.2	8.5908	8.3221	1836	C 357	9.2	23.2372	16.5890
317	B 31	8.6	0.3442	2.0174	1422	C 188	8.4	10.7137	23.1035	1915	C 361	8.3	25.1071	19.9133
460	B 32	9.2	1.2200	9.7390	922	B 98	8.3	12.6816	1.2515	1916	C 364	9.0	25.1737	19.6191
764	C 57	9.5	1.8180	22.4276	1104	B 101	9.4	13.8973	9.9705	1990	C 365	8.8	25.1807	22.4107
765	C 60	9.0	2.3133	22.4752	1309	C 206	9.5	14.6637	17.6717	1838	C 366	8.1	25.4112	16.4428
623	C 61	8.6	2.5830	16.1581	1287	C 210	8.9	15.7011	16.8242	Plate 876. R.A. 0 ^h 36 ^m				
531	C 67	9.0	3.9040	12.9777	945	B 109	7.4	16.1225	3.1831	2230	B 178	8.0	0.8722	8.4823
579	C 70	8.4	4.4890	14.5334	926	B 110	8.1	17.4908	1.9333	2460	C 356	8.8	1.2886	20.6061
742	C 73	7.4	4.7941	21.4673	1046	B 111	7.2	17.9964	6.8769	2383	C 357	9.2	1.5366	16.5982
743	C 75	8.9	5.2992	21.6285	1211	C 225	7.2	18.3747	13.3158	2443	C 361	8.3	3.4553	19.8942
532	B 38	8.6	5.5656	12.3520	1212	C 227	9.4	18.5817	14.0755	2444	C 364	9.0	3.5175	19.5991
325	B 39	9.0	5.8011	1.9172	1389	C 231	7.6	18.9274	21.7454	2498	C 365	8.5	3.5657	22.3901
304	B 40	9.2	6.4418	0.7994	1432	C 235	9.3	19.1568	23.3318	2384	C 366	8.1	3.7081	16.4195
490	B 46	8.7	7.7858	11.0708	1451	C 237	9.2	19.1718	24.6912	2521	C 367	8.3	5.0814	23.6091
770	C 88	9.2	9.1172	23.0269	1244	C 234	9.4	19.1787	14.3540	2499	C 375	6.5	6.6880	22.3076
629	C 93	9.2	9.8525	16.4621	1063	B 116	8.9	19.7414	8.0241	2278	B 190	8.5	6.7024	10.4796
798	C 96	9.0	10.2579	23.3815	1026	B 119	9.2	19.9910	5.9047	2368	C 380	8.8	7.7574	15.1935
700	C 101	8.9	10.7679	19.6402	1141	C 240	9.2	20.2902	10.6205	2369	C 383	9.1	8.0725	15.6493
308	B 54	9.2	11.4199	1.0826	1245	C 248	9.3	21.4093	14.9754	2105	B 195	8.3	8.5341	1.1023
340	B 59	8.3	13.1926	2.2702	1455	C 249	9.0	21.6549	24.5721	2114	B 202	8.6	10.8360	1.6628
536	C 112	9.3	13.8870	12.6645	1028	B 122	8.8	21.6569	5.5297	2180	B 204	9.2	12.1882	6.0110
823	C 114	9.0	14.4672	24.9139	1265	C 251	9.3	22.1460	15.9540	2259	B 206	9.2	12.3014	9.5435
845	C 115	9.0	14.4889	25.1662	1266	C 254	9.4	23.2754	15.8979	2410	C 394	8.9	13.3457	17.1943
311	B 60	8.9	15.9365	0.8473	1145	C 255	9.2	23.3588	10.9118	2117	B 208	5.8	13.8012	1.9685
709	C 122	7.0	16.5624	20.0333	1456	C 263	8.0	24.2302	24.3587	2391	C 398	9.2	14.2759	16.3298
613	B 65	9.3	17.0882	15.3676	998	B 127	7.5	24.6982	5.0131	2412	C 407	9.0	15.6929	17.3523
614	C 124	9.1	17.1077	15.3417						2184	B 212	9.0	15.8550	5.6642
635	C 125	9.5	17.1607	16.2700						2164	B 216	8.4	19.4940	5.1252
777	C 126	9.5	17.5075	22.4607						2345	C 427	9.0	22.0597	14.0193

Oxford No.	Cambridge or Berlin A. G. C.					Oxford No.	Cambridge or Berlin A. G. C.					Oxford No.	Cambridge or Berlin A. G. C.				
+25°.	Number.	Mag.	1900°0.			+25°.	Number.	Mag.	1900°0.			+25°.	Number.	Mag.	1900°0.		
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R.A. 0 ^h 36 ^m (continued)						R.A. 0 ^h 52 ^m (continued)						R.A. 1 ^h 8 ^m (continued)					
2399	C	442	9·1	24·7247	16·6152	3418	C	565	9·5	12·4734	25·4855	4354	C	685	8·7	7·2035	16·9112
2271	B	226	9·4	24·7791	9·9018	3338	C	566	8·9	12·4865	15·3204	4110	B	365	9·1	9·9255	0·3743
2272	B	227	9·4	24·8418	9·9610	3283	B	293	8·4	12·7575	10·0110	4111	B	366	8·9	10·1214	1·0127
2475	C	444	7·0	25·0459	20·5641	3246	B	294	8·9	13·1462	6·0568	4394	C	697	9·0	11·3604	18·6513
2274	B	230	9·3	25·5638	10·2026	3216	B	296	8·7	14·0060	2·9769	4289	C	701	8·0	12·7810	12·1660
						3340	C	579	9·2	15·0862	15·6562	4482	C	704	7·5	13·2861	24·0672
						3204	B	300	7·4	15·9868	0·7907	4220	B	372	8·0	13·3245	6·7108
						3303	B	303	8·5	16·4217	11·5062	4448	C	706	7·5	13·8209	21·5464
						3217	B	305	9·1	16·7295	2·7262	4132	B	373	5·5	13·8704	1·6491
						3271	B	307	8·6	18·3825	7·7083	4483	C	709	9·2	14·3181	23·7114
						3371	C	590	9·3	19·0271	20·0681	4450	C	710	9·1	14·3976	21·9944
						3258	B	308	8·1	19·3446	7·0142	4484	C	711	9·3	14·3978	23·5981
						3402	C	595	8·5	21·1380	23·6351	4362	C	714	8·4	14·8060	16·5991
						3304	C	596	8·9	21·1995	12·0064	4381	C	720	9·0	16·0933	17·9216
						3378	C	598	9·0	22·3722	20·4750	4486	C	721	8·4	16·6171	24·0085
						3413	C	604	8·2	23·2009	24·2482	4521	C	723	8·9	17·5107	25·6533
						3290	B	313	6·7	24·7694	10·0962	4341	C	729	7·0	20·1347	15·9111
												4491	C	732	9·2	21·6485	24·0610
												4418	C	735	9·1	22·0826	19·4035
												4474	C	739	9·0	23·5667	22·2538
												4507	C	743	7·8	25·6139	24·1522
Plate 877. R.A. 0 ^h 44 ^m						Plate 878. R.A. 1 ^h 0 ^m						Plate 2694. R.A. 1 ^h 16 ^m					
2858	C	427	9·0	0·3212	14·0459	3900	C	598	9·0	0·7290	20·4970	4744	C	735	9·1	0·4235	19·4297
2774	B	226	9·4	2·9797	9·8889	3998	C	604	8·2	1·6134	24·2575	4769	C	739	9·0	1·9496	22·2575
2941	C	442	9·1	3·0243	16·6021	3681	B	313	6·7	2·9728	10·0834	4783	C	743	7·8	4·0244	24·1247
2775	B	227	9·4	3·0431	9·9473	3540	B	315	8·8	4·2793	2·4178	4745	C	747	8·4	4·5337	19·8457
3027	C	444	7·0	3·4037	20·5456	3573	B	317	8·8	5·7487	4·9432	4724	C	756	9·3	6·3508	17·4579
2794	B	230	9·3	3·7686	10·1784	3961	C	613	7·0	6·0581	22·1480	4607	B	397	9·0	6·4657	1·9726
3008	C	455	8·9	6·7504	19·3971	3965	C	622	8·3	8·0431	22·3052	4736	C	761	9·0	9·5731	19·1526
3053	C	459	9·2	7·7977	21·6796	4022	C	627	8·8	9·3283	25·2067	4659	B	405	8·1	11·8465	8·6481
3055	C	463	8·6	8·1490	21·1113	3688	B	326	8·5	9·4976	9·3843	4701	C	768	9·2	12·7126	15·0187
2840	B	240	7·8	8·5183	12·8671	4023	C	628	8·4	9·5189	25·6113	4629	B	407	8·6	13·3477	4·5916
3056	C	467	7·1	8·6765	21·9497	3597	B	328	8·5	11·7002	6·0606	4696	C	769	9·0	13·5035	14·0614
2841	C	470	8·6	9·6966	13·0520	3936	C	638	9·3	12·2944	21·4604	4669	B	409	9·1	13·6104	9·7341
2666	B	246	8·5	11·9028	4·9027	3510	B	329	8·7	12·9726	0·3693	4797	C	770	8·6	14·3181	25·7143
3080	C	479	9·0	12·7209	22·7393	3602	B	337	8·8	15·7812	5·4357	4653	B	412	8·8	14·4608	7·6576
2929	C	483	9·0	13·7854	15·4095	3745	C	645	9·5	15·9833	12·2493	4757	C	771	9·5	14·6448	20·4365
2822	C	492	9·0	14·9438	12·1725	3578	B	339	8·6	17·6369	4·6866	4793	C	772	9·0	14·9928	24·4721
2879	C	498	7·4	16·5470	13·4940	3605	B	340	8·7	18·6745	6·2825	4617	B	413	8·7	15·0125	2·6405
3121	C	505	9·0	17·8452	24·2275	3866	C	657	9·1	19·6838	18·9892	4630	B	414	8·5	15·4488	5·0686
2673	B	264	8·7	20·2306	4·7838	3841	C	663	9·0	20·9858	17·5121	4800	C	778	8·1	16·0406	25·4744
2956	C	513	9·5	20·6896	17·1334	3979	C	664	9·1	21·1624	22·4897	4710	C	781	9·1	17·0156	15·4373
2932	C	516	9·0	20·8348	15·5853	4030	C	667	9·2	22·2107	25·4920	4612	B	419	8·7	17·8715	2·0722
2980	C	517	9·5	20·8488	17·8056	...	B	348	8·5	23·6484	0·1396	4604	B	420	8·2	17·9012	0·9759
2933	C	521	7·5	21·2070	15·8621	3518	B	352	8·7	24·6999	0·8656	4759	C	790	9·2	19·4250	20·5506
3148	C	522	8·2	21·4593	25·3520							4730	C	789	8·1	19·4332	17·8596
2705	B	269	8·3	24·6720	5·7345							4644	B	425	8·8	20·8887	6·1471
2829	B	270	8·9	24·7810	11·3145							4713	C	795	9·2	21·6185	15·8022
2915	C	536	9·5	24·9216	15·0828							4664	B	428	8·9	22·0148	8·5404
2751	B	271	8·9	25·1651	7·9322							4633	B	429	8·6	22·1252	5·0038
2857	B	272	7·1	25·6208	12·3956							4795	C	799	8·5	22·6279	25·2064
												4760	C	806	8·8	24·6858	21·0397
Plate 2698. R.A. 0 ^h 52 ^m						Plate 879. R.A. 1 ^h 8 ^m											
3239	B	269	8·3	2·8111	5·7237	4509	C	667	9·2	0·6415	25·5160						
3296	B	270	8·9	3·0024	11·3014	...	B	348	8·5	1·7051	0·1441						
3324	C	536	9·5	3·1985	15·0671	4103	B	352	8·7	2·7671	0·8551						
3264	B	271	8·9	3·3365	7·9140	4285	C	675	6·1	4·5593	12·1687						
3307	B	272	7·1	3·8580	12·3700	4423	C	677	9·2	5·2442	20·8730						
3281	B	275	8·9	4·4350	9·1983	4332	C	681	9·0	5·6479	15·3172						
3297	B	277	8·1	4·6285	11·2463	4106	B	358	8·4	5·7370	0·9542						
3299	B	279	9·1	4·9558	12·0439												
3325	C	539	8·1	4·9666	15·1024												
3206	B	285	6·3	7·2188	1·1936												
3399	C	547	8·5	8·0411	23·3421												
3208	B	288	8·8	10·0529	1·6975												
3391	C	560	8·2	11·2626	22·5823												

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Plate 2696. R.A. 1 ^h 24 ^m					R.A. 1 ^h 40 ^m (continued)					Plate 881. R.A. 1 ^h 56 ^m							
...	B	428	8.9	0.1954	8.5680	5705	C	948	9.5	10.2544	16.1849	6402	C	1064	9.0	1.0474	17.3892
...	B	429	8.6	0.2536	5.0300	5707	C	951	7.4	10.8848	16.5498	6500	C	1065	9.2	1.1384	22.7106
5194	C	799	8.5	1.0544	25.2239	5526	B	521	9.1	11.2183	2.8593	6503	C	1072	9.5	2.9704	22.7972
5139	C	806	8.8	3.0507	21.0265	5830	C	955	9.1	11.5693	24.9916	6550	C	1074	8.9	3.1744	25.0206
4901	B	436	9.3	4.9039	0.5887	5564	B	523	9.0	13.5850	5.1078	6381	C	1077	8.7	4.2224	16.6595
5183	C	815	8.5	5.9536	24.9365	5821	C	962	8.6	13.6262	23.7861	6310	C	1081	9.3	4.4984	12.7008
5024	C	817	7.0	6.4575	12.0634	5604	B	524	8.6	13.7123	7.3848	6505	C	1080	9.0	4.5513	22.3476
5050	C	822	9.1	7.1462	13.6223	5565	B	525	8.6	14.2794	4.4160	6239	B	590	8.3	4.7063	8.3088
5103	C	823	9.1	7.1664	16.3160	5730	C	971	8.1	16.1928	18.0639	6472	C	1086	9.5	5.7051	20.9882
5067	C	825	8.0	8.6491	14.9684	5643	B	527	9.1	16.4113	10.3122	6162	B	593	7.2	6.7019	5.1294
5089	C	826	9.2	8.9094	15.6449	5779	C	973	7.0	16.9431	21.0290	6311	C	1090	9.0	7.7833	13.0272
4967	B	450	8.5	12.4017	7.0886	5586	B	528	9.0	17.0511	6.2585	6227	B	601	8.2	9.6630	7.8079
5004	B	451	6.5	12.6681	10.0917	5834	C	974	9.0	17.4239	24.1971	6512	C	1096a	9.5	10.6227	22.4771
4969	B	458	9.3	14.6515	6.3014	5667	C	981	9.3	19.6668	12.8487	6105	B	604	7.9	11.7858	0.5288
5117	C	844	7.0	16.0638	17.7630	5794	C	982	8.5	20.2011	22.0949	6262	B	606	8.9	11.9171	9.5427
5167	C	845	8.1	16.0777	23.0053	5846	C	987	9.5	21.7541	25.1219	6203	B	611	9.0	13.6536	6.4619
5189	C	847	8.4	16.5595	24.5663	5552	B	538	8.3	22.8468	3.7463	6491	C	1101	9.0	14.0111	22.0235
5193	C	872	9.1	24.6343	24.9146	5508	B	540	8.9	22.9662	0.6882	6493	C	1107	9.5	15.4570	21.6625
5011	B	473	8.9	25.0085	9.5152	5836	C	990	6.7	23.3589	24.7433	6478	C	1111	8.5	16.9961	20.2602
5038	C	872a	9.3	25.0891	12.1446	5534	B	541	8.4	23.6550	3.2293	6268	B	615	8.4	18.1870	9.6357
5039	C	873	9.4	25.2498	12.2974	5554	B	542	9.4	24.5694	4.1659	6433	C	1114	6.0	18.3493	18.4546
						5695	C	993	8.1	24.7355	16.0505	6438	C	1122	6.8	20.2708	18.2973
						5714	C	994	8.8	24.7602	16.9158	6524	C	1125	8.5	20.9789	22.2847
												6306	B	621	7.7	20.9847	12.3006
												6252	B	626	8.0	24.2514	9.0423
												6254	{ B 628	8.2	25.5423	8.6261	
													{ B 629S.	8.5	25.5463	8.6177	
													{ B 629N.	9.0	25.5477	8.6234	
Plate 2725. R.A. 1 ^h 32 ^m					Plate 2726. R.A. 1 ^h 48 ^m					Plate 2697. R.A. 2 ^h 4 ^m							
5454	C	872	9.1	3.0563	24.9019	...	C	987	9.5	0.1794	25.1530	6703	B	626	8.0	2.4394	9.0372
5360	B	473	8.9	3.2032	9.4990	5909	B	538	8.3	0.9566	3.7619		{ B 628	8.2	3.7238	8.6024	
5375	C	872a	9.3	3.3227	12.1269	5901	B	540	8.9	1.0310	0.7026	6705	{ B 629S.	8.5	3.7278	8.5940	
5376	C	873	9.4	3.4856	12.2772	5905	B	541	8.4	1.7573	3.2334		{ B 629N.	9.0	3.7292	8.5997	
5402	C	882	9.5	6.5723	15.3058	6013	C	990	6.7	1.7786	24.7499	6842	C	1136	7.4	4.9748	17.2652
5379	C	891	9.0	9.9212	12.1192	5910	B	542	9.4	2.6855	4.1567	6814	C	1138	6.5	5.2633	15.7555
5428	C	894	9.0	10.3965	19.5735	5964	C	993	8.1	3.0268	16.0374	6923	C	1139	7.6	5.5341	23.1640
5307	B	485	8.9	11.0120	1.4875	5968	C	994	8.8	3.0643	16.9022	6643	B	637	7.9	9.2519	5.1243
5358	B	490	7.4	12.7596	8.9763	5961	C	1012	9.2	5.3172	15.2452	6645	B	639	9.1	10.5475	5.0226
5311	B	491	8.6	13.1474	2.4415	5945	B	550	8.6	5.3451	10.4020	6646	B	640	8.8	10.8790	5.2278
5420	C	903	8.0	13.9788	17.7374	5969	C	1014	7.7	5.8656	17.2876	6740	B	642	8.6	11.7223	11.1535
5302	B	498	9.2	14.3710	0.5289	6003	C	1015	9.0	6.0628	22.3852	6854	C	1151	8.6	11.9162	18.6564
5450	C	909	8.8	16.3552	24.2753	5906	B	555	7.2	6.5406	2.9022	6663	B	644	8.3	12.2370	5.3562
5345	B	502	8.8	17.1631	8.0621	6001	C	1016	9.0	6.7976	22.0264	6855	C	1152	5.0	12.2601	18.6056
5455	C	915	9.1	17.2495	24.6434	5995	C	1018	8.2	9.2824	21.0891	6962	C	1155	8.7	13.3937	25.1345
...	B	503	9.1	17.6226	0.0562	5953	C	1019	9.0	9.5585	12.5407	6911	C	1156	8.9	13.5297	21.7786
5380	B	504	8.5	18.3141	12.1638	6016	C	1020	8.6	10.5312	24.8163	6753	C	1159	9.2	14.7131	12.1047
5456	C	923	8.7	19.5907	24.7250	5989	C	1026	7.0	11.9710	19.6135	6696	B	648	8.7	16.1613	7.6761
5404	C	931	6.3	23.1070	15.9270	5971	C	1028	7.5	13.8007	16.4225	6859	C	1166	6.8	17.0950	18.5919
5458	C	937	8.9	24.5466	24.3390	5914	B	568	8.8	14.8025	4.5609	6895	C	1168	8.4	17.7223	20.6254
5434	C	938	9.0	24.6628	20.8147	5966	C	1043	9.3	17.1161	15.4224	6615	B	651	8.5	17.7871	1.6544
						5998	C	1046	8.0	18.2517	20.4816	6776	C	1172	9.0	19.8884	12.4884
						5941	B	580	9.0	21.7919	9.3199	6759	C	1181	8.8	23.0424	12.0003
						5912	B	583	8.5	22.5195	3.9916	6762	C	1183	9.2	23.8322	11.7963
						5981	C	1064	9.0	22.7364	17.3727	6811	C	1184	8.0	23.8577	14.6019
						6007	C	1065	9.2	22.7489	22.6946						
						6009	C	1072	9.5	24.5794	22.8089						
						6020	C	1074	8.9	24.7307	25.0353						
						...	C	1077	8.7	25.9220	16.6903						

Oxford No.	Cambridge or Berlin A. G. C.					Oxford No.	Cambridge or Berlin A. G. C.					Oxford No.	Cambridge or Berlin A. G. C.									
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Plate 1260. R.A. 2 ^h 12 ^m						R.A. 2 ^h 28 ^m (continued)						Plate 1263. R.A. 2 ^h 52 ^m										
7080	C	1181	8.8	1.2740	12.0127	7648	B	777	8.7	15.1946	7.9198	8598	C	1493	8.9	0.2340	19.1286					
7074	C	1183	9.2	2.0608	11.7971	7643	B	779	8.6	15.4170	6.4560	8418	B	850	8.9	2.1474	2.6080					
7097	C	1184	8.0	2.1277	14.6024	7716	C	1366	9.5	15.6018	15.9686	8431	B	852	8.8	3.9477	3.7246					
7167	C	1201	9.3	6.7014	23.0100	7776	C	1369	8.9	17.6708	25.0399	8644	C	1506	9.0	6.1692	23.0911					
7043	B	681	6.3	7.6512	7.9698	7623	B	787	7.1	21.7289	3.5777	8443	B	856	8.7	6.2165	4.9888					
7115	C	1205	6.1	7.6725	16.8401	7624	B	788	6.7	21.8567	3.5708	8630	C	1510	9.0	6.7028	22.1817					
7055	B	686	var.	8.7084	8.1092	7786	C	1385	9.0	23.5498	25.5213	8667	C	1513	9.5	6.8840	25.5680					
7119	C	1221	9.0	12.7037	17.8814	7764	C	1389	8.7	24.3127	22.3060	8444	B	859	8.8	7.5595	4.7827					
7117	C	1234	9.3	17.0485	16.6457	...	C	1393	8.8	25.9395	22.7409	8620	C	1516	8.1	8.1809	21.2468					
7090	C	1237	8.2	18.0773	13.6364												8594	C	1525	9.2	12.9851	18.6578
7191	C	1243	9.0	19.1548	25.9520												8605	C	1526	9.1	13.3094	20.0472
7092	B	708	9.1	20.6786	13.2603												8543	C	1533	9.0	16.8258	13.7969
7147	C	1261	9.0	23.5021	20.6414												8523	B	871	8.5	19.3585	11.1859
7192	C	1262	9.0	23.5370	25.7505												8465	B	873	9.0	20.9753	6.9033
7162	C	1271	8.7	25.2466	22.8292												8494	B	876	8.3	22.8697	9.8027
7158	C	1270	8.7	25.2467	21.4604												8511	B	877	9.2	23.0442	10.7876
7163	C	1272	9.0	25.2680	22.5296												8512	B	880	9.0	23.3453	10.3176
																	8672	C	1550	6.2	23.8032	25.8436
																	8627	C	1554	9.4	25.5241	21.6465
																	Plate 1264. R.A. 3 ^h 0 ^m					
Plate 1487. R.A. 2 ^h 20 ^m						Plate 1261. R.A. 2 ^h 36 ^m																
7443	C	1261	9.0	1.8612	20.6461	8008	C	1385	9.0	1.9810	25.5249											
7500	C	1262	9.0	1.9715	25.7545	7982	C	1389	8.7	2.6963	22.2985											
7460	C	1270	8.7	3.6177	21.4388	7984	C	1393	8.8	4.3292	22.7087											
7471	C	1271	8.7	3.6377	22.8074	7956	C	1399	8.7	6.3573	18.2920											
7472	C	1272	9.0	3.6547	22.5075	7811	B	799	8.7	6.9537	1.3875											
7302	B	720	8.8	5.4451	9.9018	7965	C	1400	9.1	7.0852	19.6169											
7231	B	721	8.9	5.6618	3.6580	8009	C	1401	9.2	8.1619	25.2790											
7411	C	1277	9.4	6.1065	17.6854	7803	B	804	8.8	10.8087	0.1660											
7362	C	1278	9.0	6.1920	14.2714	7823	B	805	9.0	11.2799	2.9203											
7412	C	1283	9.0	6.4889	17.6069	7923	C	1412	8.3	11.3286	15.2279											
7495	C	1285	9.3	6.8653	24.3106	7959	C	1416	8.5	13.6534	18.1605											
7349	C	1297	8.0	11.1027	13.4035	7824	B	809	9.0	13.9167	2.0910											
7466	C	1298	9.0	11.1412	21.9980	8013	C	1418	8.7	14.7289	25.9193											
7497	C	1299	9.0	11.1825	24.7405	7929	C	1423	6.4	18.5615	15.5686											
7256	B	732	8.7	12.3210	5.6921	7988	C	1427	9.3	21.4094	22.7684											
7306	B	734	7.7	13.3884	9.4927	7819	B	823	9.0	23.1034	1.6134											
7399	C	1306	9.1	13.8241	16.5195	7853	B	824	8.9	23.9074	6.6905											
7440	C	1312	7.6	16.2880	20.1057	7933	C	1436	8.0	24.9520	15.8539											
7207	B	737	8.8	16.4579	0.6187	Plate 1262. R.A. 2 ^h 44 ^m																
7382	C	1317	9.0	17.6405	15.4091	8108	B	823	9.0	1.1819	1.6258											
7419	C	1325	9.2	19.6027	17.8453	8154	B	824	8.9	2.0350	6.6906											
7238	B	742	8.4	20.0470	3.2167	8247	C	1436	8.0	3.2403	15.8376											
7320	C	1343	6.2	26.0275	10.5648	8291	C	1450	9.5	6.2767	19.7175											
						8135	B	834	8.9	7.4923	4.3469											
						8210	C	1457	8.5	9.5857	11.5516											
						8317	C	1459	8.6	9.9372	21.9315											
						8258	C	1460	9.5	10.0290	16.0777											
						8190	B	838	5.8	10.1343	10.2531											
						8172	B	839	8.3	10.1377	8.9254											
						8219	C	1462	9.3	10.5119	12.8611											
						8211	C	1471	8.1	14.1050	12.0337											
						8196	C	1486	8.9	19.5060	10.4592											
						8310	C	1491	9.5	21.4352	20.5463											
						8289	C	1493	8.9	21.8976	19.0996											
						8122	B	850	8.9	24.0544	2.6095											
						8130	B	852	8.8	25.8381	3.7518											
																	Plate 2708. R.A. 3 ^h 8 ^m					
7664	C	1343	6.2	4.2375	10.5335												9084	B	918	9.0	0.8943	8.4181
7665	B	753	9.1	4.4686	11.0822												9262	C	1589	8.7	1.7504	24.0025
7765	C	1347	9.3	5.9143	24.3448												9147	C	1591	9.4	2.3170	13.5367
7759	C	1354	9.0	9.3841	22.6789												9037	B	920	8.5	2.8099	4.4255
7696	C	1355	8.9	9.5890	13.3739																	
7760	C	1357	8.8	11.1193	23.1429																	
7607	B	773	8.6	12.7949	1.5340																	

Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.						
+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.				
			ξ.	η.				ξ.	η.				ξ.	η.			
R.A. 3 ^h 8 ^m (continued)					Plate 2706. R.A. 3 ^h 24 ^m					Plate 1266. R.A. 3 ^h 40 ^m							
9127	C	1594	8.7	2.9489	11.8478	9858	C	1683	9.0	0.7381	20.2405	...	B	1094	8.9	0.0585	7.8980
9028	B	927	9.0	5.3823	3.4067	9637	B	1013	9.0	0.7765	4.7705	10501	B	1096	7.9	0.2883	9.2717
9165	C	1602	8.3	10.9554	14.6747	9843	C	1684	8.6	1.7344	19.2775	10575	C	1796	8.7	1.3557	13.6314
9273	C	1603	8.3	11.4720	25.2017	9751	C	1690	8.7	4.8098	12.8490	10674	C	1804	9.5	4.0903	18.2992
9092	B	945	9.4	12.4768	8.3437	9663	B	1019	8.5	5.0032	6.7088	10385	B	1104	9.0	4.7046	3.1228
9080	B	949	8.6	15.5996	7.6721	9846	C	1691	9.0	6.4590	19.6330	10654	C	1806	7.0	5.1973	17.3739
9169	C	1610	9.1	17.3067	15.0586	9764	C	1695	9.3	7.8657	13.2687	10675	C	1812	8.3	6.6317	18.4474
9023	B	955	8.5	17.8988	3.0811	9887	C	1699	8.1	8.6347	24.1023	10753	C	1811	8.4	6.6346	22.7109
9005	B	958	8.9	19.1842	0.9542	9909	C	1703	7.9	10.2115	24.5638	10528	B	1106	7.9	6.8583	10.1859
9155	C	1612	9.0	19.3050	13.3101	9811	B	1026	9.1	11.5513	16.6897	10336	B	1107	8.3	6.9011	1.7094
9156	C	1614	8.8	19.5909	13.7090	9779	C	1705	9.2	11.6495	14.8753	10796	C	1813	8.0	6.9294	25.7758
9258	C	1616	8.3	20.0279	23.0880	9622	B	1031	9.1	13.8205	2.7127	10601	C	1816	9.3	7.0080	14.1639
9171	C	1618	9.0	20.2961	14.5521	9825	C	1711	9.0	15.0647	17.7716	10560	C	1817	9.0	7.1886	12.4377
9157	C	1619	9.5	20.3914	14.2443	9623	B	1033	9.4	15.1521	2.9772	10658	C	1818	7.7	7.2555	17.9407
9228	C	1620	9.4	20.5798	19.4253	9742	C	1717	9.0	16.3138	11.4734	10390	B	1112	8.5	7.6648	3.9028
9185	C	1623	8.2	21.4330	15.6512	9883	C	1721	8.9	16.5170	22.8123	10695	C	1820	8.0	7.6719	19.8007
9034	B	971	9.1	23.3891	3.6134	9744	C	1722	8.1	16.5906	11.9814	10457	B	1114	8.7	8.5585	7.7071
9231	C	1630	9.2	24.1064	20.1050	9827	C	1724	9.1	17.2452	17.5675	10337	B	1116	8.5	8.8330	1.9633
9072	B	973	8.0	24.4020	7.1950	9896	C	1730	9.5	19.8891	23.4094	10312	B	1119	5.7	9.8659	0.7046
9290	C	1633	9.2	24.7289	25.6667	9916	C	1733	9.5	22.3187	25.2677	10313	B	1126	8.7	10.7062	0.3989
9232	C	1636	9.3	24.9955	19.5050	9924	C	1734	9.3	22.3596	26.0293	10459	B	1128	5.0	10.7983	7.3085
9007	B	974	9.3	25.2637	0.5508	9607	B	1050	8.9	24.3958	0.7079	10365	B	1129	4.5	10.9554	2.8470
...	C	1639	9.2	25.7562	24.9640	9608	B	1051	9.2	24.5143	1.1529	10489	B	1132	8.8	11.2943	8.3066
						9635	B	1052	8.9	24.5835	4.1119	10636	C	1831	8.5	11.7799	16.5735
						9628	B	1057	6.0	25.3756	2.6008	10803	C	1833	9.4	11.9155	25.3770
						9819	C	1737	9.5	25.4484	16.6998	10366	B	1136	8.6	11.9569	2.8069
												10700	C	1834	9.1	12.1144	19.4942
												10338	B	1138	7.3	12.1203	1.2758
												10314	B	1140	8.9	12.2908	0.7132
												10339	B	1142	4.0	12.6548	1.6657
												10396	B	1145	6.0	12.8577	3.9088
												10757	C	1836	8.4	12.9203	22.1622
												10605	C	1838	8.2	12.9882	14.0393
												10397	B	1147	7.2	13.2449	3.5931
												10317	B	1153	7.4	14.3862	0.3281
												10703	C	1842	8.5	14.5358	19.3980
												10641	C	1844	8.9	15.5730	16.9026
												10399	B	1160	7.0	15.8167	3.5253
												10470	B	1161	8.4	15.9659	7.1241
												10415	B	1170	7.5	16.9273	4.3566
												10429	B	1172	8.4	17.0422	5.1848
												10320	B	1176	7.0	17.2174	0.7591
												10589	C	1848	8.4	17.8485	13.9400
												10517	B	1181	7.1	18.8174	9.1733
												10348	B	1183	8.3	19.2232	1.1444
												10349	B	1187	8.0	19.9713	1.4797
												10793	C	1854	8.5	20.0164	24.8405
												10687	C	1855	8.5	20.2767	18.9298
												10376	B	1201	8.3	22.0900	2.1167
												10352	B	1202	6.5	22.3162	1.9381
												10329	B	1203	8.2	22.5347	0.3411
												10332	B	1208	9.0	23.4542	0.3147
												10667	C	1863	9.1	23.5004	17.1577
												10748	C	1865	8.9	23.7808	21.9128
												10355	B	1210	7.8	23.9113	1.5781
												10598	C	1866	9.2	24.6693	13.9627
												10650	C	1867	6.3	24.6709	16.3871
												10436	B	1215	9.0	24.7248	5.3940
												10405	B	1218	8.1	25.3145	3.3514
															</		

Cambridge or Berlin A. G. C.					Cambridge or Berlin A. G. C.					Cambridge or Berlin A. G. C.				
Oxford No.	Number.	Mag.	1900°.		Oxford No.	Number.	Mag.	1900°.		Oxford No.	Number.	Mag.	1900°.	
+25°.			ξ.	η.	+25°.			ξ.	η.	+25°.			ξ.	η.
Plate 1277. R.A. 3 ^h 48 ^m					R.A. 3 ^h 56 ^m (continued)					Plate 1281. R.A. 4 ^h 20 ^m				
...	B 1201	8.3	0.1845	2.1435	11235	B 1305	8.9	17.9705	2.5140	12141	C 2059	5.8	3.4997	17.7539
...	B 1202	6.5	0.3994	1.9615	11364	C 1974	8.7	18.8838	14.5091	12142	C 2060	8.8	3.5325	17.8053
10901	B 1203	8.2	0.5943	0.3615	11358	C 1976	9.0	20.1613	13.6151	12029	B 1406	7.3	6.0468	3.0862
10903	B 1208	9.0	1.5135	0.3221	11466	C 1977	8.0	20.3063	24.1265	12014	B 1416	8.3	7.3328	1.8602
11101	C 1863	9.1	1.8081	17.1628	11365	C 1978	8.4	20.8334	14.9996	12015	B 1417	6.6	7.4258	1.8272
10914	B 1210	7.8	1.9891	1.5787	11455	C 1982	8.3	22.5554	22.8180	12078	C 2071	9.3	9.3015	12.1710
11153	C 1865	8.9	2.1588	21.9132	11347	C 1983	9.0	22.6303	12.7917	12170	C 2074	7.7	10.5051	19.2343
10967	B 1215	9.0	2.8589	5.3827	11422	C 1986	9.0	23.6178	19.2405	12171	C 2075	9.5	10.6255	20.0082
11052	C 1866	9.2	2.9297	13.9508	11480	C 1988	7.5	23.8211	24.3300	12066	C 2082	8.8	17.0884	11.0466
11090	C 1867	6.3	2.9671	16.3749	11279	B 1325	8.7	24.1064	6.5706	12111	C 2083	9.4	17.6083	15.2800
10940	B 1218	8.1	3.4183	3.3318	11402	C 1995	8.2	25.5661	18.4699	12036	B 1436	8.9	17.8861	3.6090
11069	C 1871	9.2	5.1814	14.2951						12009	B 1440	8.8	19.6183	0.1349
11188	C 1874	8.3	5.6905	25.6425						12165	C 2089	9.5	21.6422	18.7833
11104	C 1875	9.2	5.8137	17.0178										
11035	C 1877	7.7	6.0006	11.3475										
10943	B 1226	8.8	6.1104	3.6286										
11128	C 1878	8.3	6.9080	19.6551										
11172	C 1879	9.3	7.0557	22.7973										
11156	C 1883	8.0	7.3916	21.3984										
11057	C 1885	8.1	7.5987	13.4892										
11184	C 1887	8.1	7.9747	24.1796										
11185	C 1888	9.1	8.0729	24.2043										
11037	B 1232	7.6	8.1305	11.4193										
11105	C 1892	9.2	9.4901	17.1183										
10984	B 1233	8.8	10.0182	6.0184										
11071	C 1896	9.0	10.3496	14.1033										
11079	C 1898	8.6	10.5884	15.8440										
11107	C 1900	9.2	11.2874	17.1371										
11147	C 1901	8.3	11.5651	20.6593										
10959	B 1237	9.3	11.5995	4.5621										
11121	C 1903	8.5	11.6792	18.1887										
11108	C 1904	6.9	11.7803	17.6329										
11038	C 1905	9.4	11.9424	11.8317										
10960	B 1243	9.1	13.6418	4.2856										
11109	C 1910	8.6	14.7730	17.6849										
11031	B 1246	8.4	16.0658	10.7409										
11122	C 1920	9.4	18.9155	18.6535										
11048	C 1930	8.0	21.6594	12.9297										
10937	B 1266	6.6	22.4691	3.0947										
Plate 1278. R.A. 3 ^h 56 ^m					Plate 1279. R.A. 4 ^h 4 ^m					Plate 1282. R.A. 4 ^h 28 ^m				
11238	B 1266	6.6	0.5694	3.1159	11577	C 1983	9.0	0.8737	12.8101	12356	C 2098	8.2	5.3993	10.8041
11423	C 1937	9.2	4.4597	20.0800	11662	C 1982	8.3	0.9467	22.8369	12436	C 2100	9.0	6.8210	21.0614
11406	C 1938	9.1	4.4973	19.7089	11638	C 1986	9.0	1.9562	19.2438	12373	C 2104	7.2	8.3258	12.6704
11471	C 1940	9.5	5.4013	24.4584	11681	C 1988	7.5	2.2347	24.3296	12367	C 2107	9.3	9.1503	11.9093
11269	B 1278	9.0	5.4188	6.5436	11537	B 1325	8.7	2.2579	6.5680	12303	B 1456	8.4	11.4439	1.8134
11339	C 1941	8.5	5.4345	12.1771	11627	C 1995	8.2	3.8931	18.4429	12319	B 1459	8.9	12.4677	4.5139
11308	B 1280	9.0	5.6157	10.4013	11652	C 1999	7.5	9.1772	20.3417	12305	B 1463	8.8	15.1534	1.4345
11284	B 1281	9.0	6.5268	7.8852	11580	C 2006	9.3	13.2915	12.2003	12430	C 2124	7.3	21.9048	19.3300
11261	B 1282	8.6	7.2806	5.9539	11597	C 2007	8.8	14.4992	14.2118	12330	B 1475	8.9	24.2008	5.2737
11412	C 1950	9.4	10.6555	19.9172	11657	C 2012	8.5	17.7013	21.6898					
11428	C 1957	8.7	12.6574	20.7196	11516	B 1346	8.8	18.0370	3.0746					
11246	B 1297	9.1	13.3193	3.4701	11551	B 1347	8.9	18.0510	7.9437					
11429	C 1960	8.6	13.6667	20.6684	11531	B 1348	8.3	18.4799	4.7308					
11430	C 1962	8.1	14.7387	20.7177	11665	C 2016	8.5	19.4739	22.4626					
11356	C 1965	8.4	16.6117	13.8011	11547	B 1359	9.0	23.0518	6.9887					
11296	B 1304	8.5	17.3838	9.0483	11699	C 2021	9.3	23.3695	25.5986					
11416	C 1970	9.4	17.7985	19.5399	11690	C 2023	7.6	25.0135	25.1175					
Plate 1278. R.A. 3 ^h 56 ^m					Plate 1280. R.A. 4 ^h 12 ^m					Plate 1283. R.A. 4 ^h 36 ^m				
11238	B 1266	6.6	0.5694	3.1159	11759	B 1359	9.0	1.2096	7.0012	12597	C 2124	7.3	0.2445	19.6411
11423	C 1937	9.2	4.4597	20.0800	11971	C 2021	9.3	1.8018	25.6051	12533	B 1475	8.9	2.3332	5.2698
11406	C 1938	9.1	4.4973	19.7089	11973	C 2023	7.6	3.4384	25.0988	12553	B 1478	9.0	4.4184	7.7531
11471	C 1940	9.5	5.4013	24.4584	11711	B 1367	8.6	5.0270	1.7187	12574	C 2133	6.3	5.6213	13.2573
11269	B 1278	9.0	5.4188	6.5436	11818	C 2028	9.4	6.4420	14.7987	12614	C 2142	8.3	10.2915	22.5829
11339	C 1941	8.5	5.4345	12.1771	11834	C 2033	9.0	7.8489	16.2265	12545	B 1493	9.1	12.2139	6.4433
11308	B 1280	9.0	5.6157	10.4013	11745	B 1381	8.7	12.7863	4.9817	12632	C 2149	8.5	15.5267	25.6394
11284	B 1281	9.0	6.5268	7.8852	11777	B 1383	8.6	13.3431	8.9813	12581	C 2153	9.1	19.2350	17.1135
11261	B 1282	8.6	7.2806	5.9539	11792	B 1385	8.5	14.1292	10.1041	12526	B 1512	8.9	21.8517	3.7269
11412	C 1950	9.4	10.6555	19.9172	11947	C 2040	8.7	14.8033	23.8607	12625	C 2160	7.5	23.9495	23.2849
11428	C 1957	8.7	12.6574	20.7196	11917	C 2041	9.0	15.6280	21.5138					
11246	B 1297	9.1	13.3193	3.4701	11964	C 2042	8.0	16.5141	24.9522					
11429	C 1960	8.6	13.6667	20.6684	11888	C 2044	9.0	18.1760	20.0679					
11430	C 1962	8.1	14.7387	20.7177	11891	C 2049	7.7	19.5418	20.0557					
11356	C 1965	8.4	16.6117	13.8011	11852	C 2059	5.8	25.1831	17.7739					
11296	B 1304	8.5	17.3838	9.0483	11853	C 2060	8.8	25.2152	17.8258					
11416	C 1970	9.4	17.7985	19.5399										
Plate 1278. R.A. 3 ^h 56 ^m					Plate 1280. R.A. 4 ^h 12 ^m					Plate 1284. R.A. 4 ^h 44 ^m				
11238	B 1266	6.6	0.5694	3.1159	11759	B 1359	9.0	1.2096	7.0012	12861	C 2160	7.5	2.3476	23.2827
11423	C 1937	9.2	4.4597	20.0800	11971	C 2021	9.3	1.8018	25.6051	12868	C 2168	9.1	4.8004	25.0030
11406	C 1938	9.1	4.4973	19.7089	11973	C 2023	7.6	3.4384	25.0988	12869	C 2170	9.2	6.3408	24.6947
11471	C 1940	9.5	5.4013	24.4584	11711	B 1367	8.6	5.0270	1.7187	12848	C 2173	8.6	7.5317	20.5541
11269	B 1278	9.0	5.4188	6.5436	11818	C 2028	9.4	6.4420	14.7987	12763	B 1528	8.5	8.9049	7.8024
11339	C 1941	8.5	5.4345	12.1771	11834	C 2033	9.0	7.8489	16.2265	12733	B 1530	9.3	9.7229	4.2617
11308	B 1280	9.0	5.6157	10.4013	11745	B 1381	8.7	12.7863	4.9817					
11284	B 1281	9.0	6.5268	7.8852	11777	B 1383	8.6	13.3431	8.9813					
11261	B 1282	8.6	7.2806	5.9539	11792	B 1385	8.5	14.1292	10.1041					
11412	C 1950	9.4	10.6555	19.9172	11947	C 2040	8.7	14.8033	23.8607					
11428	C 1957	8.7	12.6574	20.7196	11917	C 2041	9.0	15.6280	21.5138					
11246	B 1297	9.1	13.3193	3.4701	11964	C 2042	8.0	16.5141	24.9522					
11429	C 1960	8.6	13.6667	20.6684	11888	C 2044	9.0	18.1760	20.0679					
11430	C 1962	8.1	14.7387	20.7177	11891	C 2049	7.7	19.5418	20.0557					
11356	C 1965	8.4	16.6117	13.8011	11852	C 2059	5.8	25.1831	17.7739					
11296	B 1304	8.5	17.3838	9.0483	11853	C 2060	8.8	25.2152	17.8258					
11416	C 1970	9.4	17.7985	19.5399										

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Oxford No.	Number.	Mag.	1900°.		Oxford No.	Number.	Mag.	1900°.		Oxford No.	Number.	Mag.	1900°.				
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R.A. 4 ^h 44 ^m (continued)					R.A. 5 ^h 0 ^m (continued)					Plate 2797. R.A. 5 ^h 16 ^m							
12770	B	1532	9.1	10.5742	8.5426	13549	C	2271	8.0	6.8186	11.0241	14745	C	2393	8.9	0.1231	24.7307
12819	C	2189	9.1	13.3023	15.0487	13307	B	1623	8.5	6.9539	0.3051	14580	C	2395	9.1	1.6488	12.5290
12721	B	1537	8.7	16.2140	2.4415	13641	C	2282	9.5	9.2096	21.1603	14507	B	1702	8.7	5.7628	7.5400
12857	C	2194	9.0	16.9638	22.7278	13368	B	1635	8.9	12.6468	2.5589	14603	B	1704	9.4	6.3752	14.0269
12807	C	2199	9.4	19.2952	12.5154	13454	B	1636	9.1	14.6364	6.7834	14604	C	2410	9.0	6.4266	13.9743
12785	C	2206	8.7	21.7314	9.8652	13677	C	2295	9.1	14.6424	24.5753	14460	B	1707	9.1	7.2449	4.8555
12713	B	1547	8.1	22.0255	1.1601	13408	B	1638	8.6	15.2877	4.0581	14474	B	1708	9.3	7.6050	5.7611
12827	C	2208	7.5	22.4469	15.4395	13514	B	1640	8.6	17.2377	9.3176	14568	C	2412	8.4	7.6724	11.9606
12823	C	2213	9.4	24.4952	14.3256	13370	B	1645	6.2	18.5211	2.6079	14605	C	2413	7.9	7.9840	13.8282
12824	C	2214	9.1	24.8573	14.2959	13658	C	2306	9.1	19.4711	22.6655	14405	B	1713	8.8	8.8485	1.1020
12847	C	2216	9.2	25.3637	19.8383	13517	C	2307	9.3	20.7002	10.0916	14714	C	2418	8.5	9.4957	20.5929
					13637	C	2317	9.0	22.5962	20.6797	14408	B	1715	8.9	9.7862	0.2215	
					13646	C	2319	9.3	22.7274	21.2531	14409	B	1716	8.9	9.8096	0.2448	
					13566	C	2325	9.3	23.8408	12.7868	14587	C	2431	9.1	14.7958	13.0728	
					13522	C	2326	9.0	24.7686	9.3439	14574	C	2439	8.2	18.1141	11.4078	
					13355	B	1660	9.2	25.1212	1.4914	14428	B	1727	8.9	20.3924	1.1960	
					13574	C	2330	8.3	25.5355	13.3175	14717	C	2452	8.0	23.4201	21.0781	
					13525	C	2333	8.8	25.8304	9.9962	14430	B	1739	8.8	24.4672	1.1123	
					13419	B	1664	8.8	26.0518	4.3969	14646	C	2459	8.5	25.3643	15.4036	
										14595	C	2460	8.2	25.4761	12.1382		
										14719	C	2461	8.7	25.5520	21.0205		
Plate 2709. R.A. 4 ^h 52 ^m					Plate 2795. R.A. 5 ^h 8 ^m					Plate 2727. R.A. 5 ^h 24 ^m							
12901	B	1547	8.1	0.0972	1.1877	14303	C	2317	9.0	0.9561	20.6980	14999	C	2452	8.0	1.7857	21.0842
13135	C	2208	7.5	0.7293	15.4605	14323	C	2319	9.3	1.0956	21.2695	14801	B	1739	8.8	2.5381	1.1050
13122	C	2213	9.4	2.7601	14.3164	14068	C	2325	9.3	2.0840	12.7873	14951	C	2459	8.5	3.6459	15.3812
13123	C	2214	9.1	3.1227	14.2812	13955	C	2326	9.0	2.9609	9.3314	14904	C	2460	8.2	3.7095	12.1148
13168	C	2216	9.2	3.7126	19.8152	13721	B	1660	9.2	3.1976	1.4749	15000	C	2461	8.7	3.9079	20.9944
13126	C	2222	8.2	5.2571	14.4032	14100	C	2330	8.3	3.7863	13.2931	14812	B	1744	9.0	4.9473	2.5301
13128	C	2227	8.8	7.8991	15.2029	13959	C	2333	8.8	4.0321	9.9679	14874	B	1746	8.9	5.9694	8.7895
12987	B	1574	6.8	7.9981	6.2004	13798	B	1664	8.8	4.1719	4.3665	15057	C	2468	8.9	6.4328	25.6516
13059	B	1575	9.0	8.0673	9.3181	14340	C	2334	9.1	4.4441	23.0517	14826	B	1748	9.1	6.4696	3.9934
13028	B	1578	8.6	10.2930	8.1377	13799	B	1669	8.5	5.3926	4.4566	14816	B	1758	9.0	10.3235	2.5998
13077	B	1579	9.1	10.3809	10.5500	13923	B	1673	9.0	6.4456	8.7552	14933	C	2472	5.5	10.6073	13.8346
13161	C	2237	9.0	12.7923	18.5931	13755	B	1674	8.0	7.7871	2.8952	15050	C	2482	8.8	13.6933	24.4430
13093	C	2241	6.0	13.0975	11.7570	14168	C	2346	9.5	8.2149	15.3339	14956	C	2483	8.1	13.8036	16.0539
13190	C	2242	8.4	13.3670	24.2256	14079	C	2351	9.3	9.4602	13.1319	14886	B	1768	9.1	14.2815	9.8585
12974	B	1583	8.3	15.1467	5.1054	13806	B	1676	8.2	10.1379	4.3250	...	B	1773	9.2	16.3547	0.1414
13133	C	2246	9.5	16.8603	14.2893	14147	C	2355	8.7	11.6979	14.8125	14913	C	2495	8.9	18.0457	12.0253
13176	C	2247	8.7	16.8980	20.8699	14113	C	2356	9.0	11.7105	13.2405	14916	C	2496	8.8	18.5292	11.9894
13184	C	2248	8.1	16.9501	22.4421	14016	C	2359	8.5	12.3585	10.2774	15031	C	2503	8.0	20.4800	22.8766
12934	B	1590	9.1	18.0776	1.3562	14346	C	2363	7.5	13.9238	22.6119	14839	B	1784	8.7	21.0932	4.5565
13108	C	2255	8.4	18.8764	12.8400	14060	C	2367	9.0	16.0830	11.1869	14976	C	2506	9.0	22.0696	17.8437
12918	B	1593	8.3	19.3738	1.1644	13834	B	1687	8.8	16.3096	5.8347	14867	B	1787	7.6	22.2221	7.7315
13083	C	2257	9.4	20.2240	11.1605	14269	C	2368	9.0	16.3898	18.2220	14902	C	2520	9.1	24.6693	10.4547
13187	C	2263	8.8	22.3185	22.8891	13731	C	2370a	9.0	16.7877	1.7294	15037	C	2524	8.5	25.5869	22.8462
13015	B	1602	8.3	22.5769	7.0053	13984	C	2378	8.8	17.7406	9.7185						
12982	B	1606	8.7	24.7761	5.1871	14357	C	2374	7.3	17.9384	23.1380						
12923	B	1610	8.4	25.6293	0.7802	14182	C	2375	8.4	17.9676	15.9495						
13177	C	2269	8.7	25.6543	20.6713	14210	C	2383	9.2	18.9211	16.4859						
12953	B	1611	8.5	25.7633	3.1202	13716	B	1692	8.8	20.0924	1.0864						
					14092	C	2389	8.9	20.7215	13.1162							
					14363	C	2393	8.9	21.7041	24.6990							
					14094	C	2395	9.1	23.4094	12.5220							
Plate 1285. R.A. 5 ^h 0 ^m										Plate 2711. R.A. 5 ^h 32 ^m							
13651	C	2263	8.8	0.7109	22.9116	15632	C	2506	9.0	0.3876	17.8703	15284	B	1787	7.6	0.3907	7.7561
13462	B	1602	8.3	0.7350	7.0247	15830	C	2524	8.5	3.9782	22.8193	15379	C	2520	9.1	2.8781	10.4434
13422	B	1606	8.7	2.9071	5.1750	15214	B	1795	9.4	4.5811	6.0319	15874	C	2531	9.1	4.8527	23.5711
13303	B	1610	8.4	3.6951	0.7566	15158	B	1797	7.4	4.6312	3.7018	15786	C	2533	7.8	5.1601	22.1637
13379	B	1611	8.5	3.8635	3.0944												
13626	C	2269	8.7	4.0135	20.6437												
13425	B	1615	9.0	5.5602	5.0622												
13627	C	2270	8.5	5.6177	20.5473												

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R.A. 5 ^h 32 ^m (continued)					R.A. 5 ^h 40 ^m (continued)					R.A. 5 ^h 48 ^m (continued)							
15464	C	2534	8.6	5.5068	12.4858	16948	C	2621	9.5	2.8365	18.9448	17447	B	1998	9.0	3.3711	2.3144
15104	B	1801	5.8	5.7166	0.6972	17185	C	2623	9.2	3.6213	22.9838	17958	C	2727	7.7	3.7995	25.3359
15833	C	2535	8.9	5.9462	22.6728	17077	C	2624	9.0	3.9580	21.1585	17665	C	2730	9.0	4.4899	12.017
15247	B	1803	8.8	5.9836	6.6084	16821	C	2626	8.2	4.5442	16.8098	17761	C	2731	8.7	4.5209	15.431
15574	C	2536	9.0	6.3471	15.5191	17189	C	2628	9.2	4.9292	22.5238	17598	B	2010	9.0	6.2124	9.1466
15425	C	2538	9.1	6.6937	11.2963	16037	B	1898	8.2	5.6528	1.4788	17879	C	2740	9.1	6.7963	20.8555
15915	C	2539	9.0	7.0317	24.4282	17291	C	2630	9.0	5.6894	24.7943	17451	B	2016	8.7	8.5792	2.2685
15349	B	1810	8.6	7.0969	9.2144	16770	C	2633	8.1	5.7776	15.9331	17467	B	2018	9.2	8.8148	3.4251
15250	B	1812	9.3	7.3801	6.5083	16535	C	2634	9.1	6.0020	11.5376	17783	C	2750	8.8	8.8160	16.1987
15217	B	1813	8.9	7.5484	5.9676	16890	C	2636	6.8	6.1578	17.7235	17947	C	2749	8.9	8.8452	23.9252
15251	B	1815	9.3	7.5970	6.6993	16657	C	2641	8.5	6.3809	13.2828	17965	C	2757	8.9	10.0170	25.3257
15706	C	2545	8.5	8.4047	19.2848	16718	C	2644	8.9	7.0643	14.7729	17897	C	2762	8.5	11.1709	21.6299
15878	C	2544	6.6	8.4255	23.5045	16374	B	1908	8.9	7.4555	8.2749	17703	C	2763	7.5	11.2189	13.6054
15139	B	1816	9.1	8.4331	2.2557	16826	C	2647	9.2	7.4654	16.9438	17487	B	2031	8.4	11.4605	4.1713
15188	B	1817	8.2	8.4765	4.6566	16540	C	2657	7.9	8.8593	11.4700	17861	C	2766	8.2	11.5124	19.8433
15501	C	2547	8.8	8.8476	14.0898	16962	C	2656	9.0	8.8943	18.3236	17967	C	2767	9.1	11.6358	24.9055
15919	C	2549	9.3	9.2722	24.3316	17154	C	2659	8.2	9.3525	21.5708	17864	C	2772	8.6	12.6598	19.2542
15140	B	1827	9.0	10.3736	3.0798	16382	C	2663	8.0	10.3745	8.6975	17968	C	2773	9.2	12.7631	25.0065
15922	C	2553	9.2	11.1762	25.1530	16224	B	1921	8.5	10.5405	5.5260	17428	B	2037	8.6	12.8658	1.8343
15795	C	2556	9.2	11.7902	21.9697	16967	C	2664	9.4	10.6057	18.6809	17411	B	2040	9.0	13.3185	0.4326
15923	C	2557	9.0	12.1241	24.4056	16442	B	1924	9.0	11.2646	10.0463	17491	B	2041	9.2	13.5081	4.6910
15716	C	2558	9.0	12.3206	19.5837	17156	C	2670	8.5	11.2750	21.2675	17706	C	2777	9.3	14.9899	13.9220
15142	B	1838	8.9	12.4721	2.9217	16667	B	1925	9.2	11.3214	13.7370	17650	C	2778	9.5	14.9966	11.3500
15169	B	1840	8.9	13.0100	4.0498	16668	C	2672	8.0	11.3329	13.8989	17651	C	2782	9.1	15.5505	11.3635
15474	C	2562	9.1	13.8801	12.2052	17343	C	2675	8.9	12.0921	25.8288	17940	C	2786	9.1	16.2050	23.8485
15475	C	2564	9.5	14.0731	12.3146	17258	C	2676	7.7	12.2580	23.4687	17844	C	2792	9.1	17.2761	18.4147
15261	B	1844	10.0	15.7134	7.1300	16127	B	1933	8.2	12.5174	3.2037	17414	B	2049	9.1	17.6256	0.4205
15262	B	1848	9.8	15.9675	6.5465	16839	C	2678	8.8	13.0529	16.1830	17713	C	2794	9.2	17.8444	13.1070
15586	C	2572	8.7	16.6987	16.0754	17097	C	2679	8.4	13.2276	20.9310	...	B	2051	9.0	18.0267	0.0520
15850	C	2575	5.5	17.1617	23.1025	17346	C	2680	9.0	13.3096	25.3674	17787	C	2797	8.0	18.5353	16.7715
15894	C	2576	9.5	17.5677	23.5512	16973	C	2681	9.3	13.4281	18.2765	17538	B	2054	9.4	18.6961	6.5723
15267	B	1851	9.4	17.7421	6.8310	16974	C	2682	8.7	13.5722	19.0393	17539	B	2055	9.3	18.7492	6.9555
15153	B	1852	7.9	17.7662	3.0214	17045	C	2683	9.4	13.7939	19.8331	17848	C	2800	8.7	19.0892	18.9167
15268	B	1857	9.5	18.5583	7.0244	16787	C	2684	8.7	14.0158	15.8246	17717	C	2801	8.8	19.3734	13.3141
15515	C	2579	8.5	18.7353	13.3504	16978	C	2685	9.5	14.1048	19.0553	17792	C	2802	9.5	19.9199	16.6702
15448	C	2580	9.0	18.7512	11.9375	17209	C	2690	8.5	15.4962	22.6991	17518	B	2060	9.0	19.9509	5.8260
15269	B	1861	9.2	18.8041	6.3253	17350	C	2691	9.3	15.5952	25.8016	17907	C	2803	9.5	20.3393	21.6730
15270	B	1862	8.0	18.9291	6.8112	17267	C	2693	9.0	15.9805	24.0763	17477	B	2062	6.3	20.6903	3.8382
15933	C	2583	9.0	19.2432	24.2951	16391	B	1951	9.0	16.0439	8.3360	17586	B	2063	9.2	20.9635	8.3083
15589	C	2587	8.5	20.0935	15.5475	17050	C	2696	6.6	16.7738	19.3795	17721	C	2806	9.1	21.0767	13.8836
15976	C	2591	9.0	20.7204	25.9370	17320	C	2698	9.1	17.0217	24.2607	17687	C	2810	9.2	21.5853	12.8870
15205	B	1870	8.0	21.1191	4.5806	17051	C	2701	9.1	17.4882	20.0899	17910	C	2811	9.0	21.7421	21.8611
15692	C	2600	8.5	22.4043	18.5709	16061	B	1959	9.0	17.5942	1.5441	17543	B	2071	9.5	22.0904	6.5849
15694	C	2602	9.3	22.4775	18.2108	17213	C	2702	9.3	17.8807	22.6149	17588	B	2074	7.4	22.4791	8.2281
15181	B	1874	9.0	22.7491	3.9661	16396	B	1961	7.4	17.8903	8.8120	17634	B	2075	8.3	22.5329	10.0335
15945	C	2608	9.0	22.9258	24.8930	16317	B	1962	9.1	17.9440	6.2126	17754	C	2814	8.5	22.7846	14.9450
15208	B	1878	8.1	23.4785	4.2466	16397	B	1963	7.9	17.9682	8.5071	17914	C	2815	9.0	23.0024	21.1949
15822	C	2616	9.1	24.0121	21.8411	17358	C	2707	9.0	19.6289	25.4032	17956	C	2818	5.2	23.2269	24.3329
15776	C	2620	9.5	24.3305	20.6420	16197	B	1970	9.0	19.6324	4.3069	17589	B	2077	7.8	23.5373	8.2939
15696	C	2621	9.5	24.5024	18.9550	16319	B	1972	8.6	19.6882	7.1187	17874	C	2821	8.2	23.6995	19.7272
15869	C	2623	9.2	25.2276	23.0055	16361	B	1979	5.9	20.8582	7.4306	17565	B	2080	9.3	24.7955	7.2131
15779	C	2624	9.0	25.5913	21.1853	17117	C	2714	7.6	20.9178	20.4232	17798	C	2826	9.0	24.9249	16.4631
						16148	B	1982	7.7	21.8104	3.2980	17825	C	2829	9.2	25.0983	17.6432
						16935	C	2720	9.2	23.3440	17.4069	17636	B	2083	7.7	25.1480	10.5072
						16939	C	2723	9.5	24.3228	17.7672	17799	C	2832	9.0	25.5310	16.0281
						16106	B	1998	9.0	25.2828	2.3334	17934	C	2834	7.3	25.6734	22.2665
						17366	C	2727	7.7	25.3710	25.3601						
Plate 2796. R.A. 5 ^h 40 ^m					Plate 498. R.A. 5 ^h 48 ^m					Plate 2712. R.A. 5 ^h 56 ^m							
16944	C	2600	8.5	0.7329	18.5924	17802	C	2720	9.2	1.6554	17.4144	19186	C	2811	9.0	0.1192	21.8925
16946	C	2602	9.3	0.8007	18.2310	17803	C	2723	9.5	2.6395	17.7601	18201	B	2071	9.5	0.2422	6.6114
16110	B	1874	9.0	0.8622	3.9832												
17282	C	260															

Cambridge or Berlin A. G. C.						Cambridge or Berlin A. G. C.						Cambridge or Berlin A. G. C.					
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R.A. 5 ^h 56 ^m (continued)						Plate 2713. R.A. 6 ^h 4 ^m						R.A. 6 ^h 12 ^m (continued)					
18297	B	2074	7.4	0.6551	8.2490	20428	C	2939	9.1	1.7566	16.5223	21382	C	3070	7.5	5.5114	17.3813
18347	B	2075	8.3	0.7356	10.0533	20456	C	2941	9.4	1.9453	17.4908	21427	C	3072	9.4	6.4376	18.8830
18688	C	2814	8.5	1.0598	14.9619	20763	C	2944	9.0	2.1306	25.3963	21466	C	3076	9.4	6.7308	20.1955
19189	C	2815	9.0	1.3696	21.2073	20082	C	2953	8.6	3.6653	10.1492	20833	B	2268	8.8	6.7773	2.1334
19364	C	2818	5.2	1.6405	24.3415	20546	C	2954	9.3	3.8480	19.7779	20873	B	2269	8.9	6.9276	2.9190
18298	B	2077	7.8	1.7143	8.2994	19717	B	2172	8.9	4.2355	4.8883	20896	B	2273	9.1	7.5796	3.9182
19060	C	2821	8.2	2.0452	19.7291	19984	B	2174	9.0	4.3116	7.6999	20808	B	2278	6.3	8.0899	1.0353
18244	B	2080	9.3	2.9564	7.2003	20549	C	2958	8.6	5.4715	19.3791	21542	C	3088	9.5	8.7420	22.1701
18841	C	2826	9.0	3.2222	16.4472	20193	C	2963	9.5	5.9457	11.6237	21321	C	3090	9.1	8.8884	16.0437
18413	B	2083	7.7	3.3574	10.4889	20512	C	2972	8.0	7.0735	18.6349	21474	C	3093	8.5	9.5857	19.3415
18909	C	2829	9.2	3.4130	17.6245	20710	C	2973	8.5	7.1192	24.2545	21576	C	3100	10.0	11.3564	22.3335
18765	C	2832	9.0	3.8218	16.0032	20196	C	2976	8.9	7.6052	12.0572	21064	B	2284	9.1	11.4758	7.9167
19250	C	2834	7.3	4.0561	22.2383	20735	C	2980	8.2	8.3274	24.7662	...	B	2287	8.7	12.5246	0.0143
18633	C	2838	9.1	4.9511	13.6660	20604	C	2983	8.6	8.8667	21.0543	21547	C	3108	9.4	12.9383	21.8658
18844	C	2837	9.3	4.9777	17.0542	20605	C	2985	7.6	9.2324	20.9363	21609	C	3111	9.1	13.8072	24.1975
18098	B	2097	9.2	6.3156	4.0241	19843	B	2209	8.0	9.7544	5.4963	21610	C	3112	9.0	13.8671	24.0139
18639	C	2842	8.8	6.8329	13.9852	20607	C	2990	9.5	9.8905	21.1530	21401	C	3114	7.9	14.5065	17.6402
18769	C	2846	8.7	7.7063	15.3086	20517	C	2991	8.2	9.8997	19.3321	21479	C	3115	8.4	14.6053	19.8429
18562	C	2847	8.8	7.7431	12.3191	19859	B	2213	7.9	10.6306	6.3184	21635	C	3122	8.9	15.7552	25.2611
19301	C	2850	8.5	8.0672	23.9996	19998	B	2214	8.6	10.8082	8.1515	21551	C	3125	8.7	16.3521	21.6906
18101	B	2104	9.1	8.0686	3.9705	20612	C	2998	9.5	11.2571	21.3185	21259	C	3131	7.8	17.6224	13.6772
18918	C	2853	9.2	8.5964	17.3057	19690	B	2217	7.7	12.1815	3.7834	21097	B	2313	8.2	18.3339	8.3064
18421	C	2854	8.6	8.7060	10.2638	20058	B	2219	9.0	12.4737	8.6303	21328	C	3144	9.0	19.4283	15.7759
19307	C	2857	9.0	9.9300	23.6404	20311	C	3007	9.3	13.0856	13.7797	21525	C	3146	7.9	19.4941	20.8420
18922	C	2862	9.0	10.2827	17.5853	20567	C	3008	9.3	13.1344	19.7612	21586	C	3147	9.5	19.5465	23.0370
18174	B	2114	9.1	10.7342	5.9054	20519	B	3011	9.5	13.3245	19.2062	21330	C	3149	7.3	19.6241	15.7963
18999	C	2867	8.8	11.3760	18.8241	20777	C	3015	7.4	14.8270	25.4088	21554	C	3152	8.7	20.2733	21.9744
19083	C	2869	9.3	11.8433	20.1884	20208	C	3019	8.4	15.5270	11.8245	20856	B	2320	8.5	20.8875	1.3974
18572	C	2870	9.3	11.9912	12.8486	20752	C	3020	9.0	15.5751	24.4640	21489	C	3159	9.4	21.2330	20.0888
19144	C	2871	9.2	12.0253	20.5383	20526	C	3021	9.5	15.8116	19.2686	21077	B	2323	8.6	21.9640	7.6898
18264	B	2121	9.1	12.1282	7.6532	20576	C	3022	9.0	16.3535	19.8998	21268	C	3160	8.9	22.4942	13.6579
18434	C	2876	9.4	12.8388	10.3857	20406	C	3024	9.1	16.4999	15.6034	21532	C	3170	8.5	24.1781	20.6340
18266	B	2126	9.1	12.9472	7.6286	19904	B	2230	6.0	16.8402	6.3156	21303	C	3171	9.2	24.2508	14.6031
...	B	2127	8.9	13.1280	0.1338	20318	C	3028	8.1	16.8450	13.3783	...	C	3181	8.1	25.9172	25.6211
18437	C	2884	8.6	13.7772	10.2759	20581	C	3032	9.5	17.1185	19.5637	Plate 2438. R.A. 6 ^h 20 ^m					
18513	C	2889	9.4	14.7917	11.9364	20754	C	3033	8.7	17.1547	25.0840						
19321	C	2890	8.0	14.8112	23.6366	20121	B	2235	8.7	17.7126	9.8174	21987	B	2323	8.6	0.1321	7.7183
19151	C	2891	8.7	14.8536	21.0979	20123	B	2239	8.9	18.4698	9.7923	22223	C	3160	8.9	0.7503	13.6783
18142	B	2135	9.3	15.8855	4.5076	20263	C	3041	8.8	19.4253	12.4132	22264	C	3171	9.2	2.5208	14.5974
19156	C	2893	9.2	15.9780	20.9104	20660	C	3044	8.5	19.8110	21.6220	22523	C	3170	8.5	2.5371	20.6286
18118	B	2137	8.8	16.0404	3.6344	20629	C	3046	9.2	20.2304	20.9143	22730	C	3181	8.1	4.3494	25.5885
18444	B	2138	9.7	16.0969	11.0772	19971	B	2242	8.7	20.3569	6.4265	22269	C	3184	9.5	4.6649	14.6460
18586	C	2896	8.0	16.2279	12.9652	20537	C	3049	9.4	20.7936	19.2582	22033	B	2338	8.7	4.8686	8.0520
18446	B	2142	9.7	16.3168	10.8967	20495	C	3050	8.4	21.6548	17.5579	21801	B	2340	9.0	5.2104	3.1635
19103	C	2899	9.1	16.4994	19.4162	20663	C	3053	9.0	21.8600	21.5141	22320	C	3190	9.3	5.3214	14.8304
18448	C	2902	9.4	17.0336	10.9912	20135	B	2250	8.2	22.6299	9.4430	21888	B	2341	9.0	5.6133	5.0947
18732	B	2145	9.1	17.6457	14.3296	19542	B	2253	7.9	24.0676	1.2058	21758	B	2343	8.7	5.7800	2.0800
18665	C	2908	9.0	17.6650	13.9577	19543	B	2254	8.2	24.0842	0.8180	21704	B	2348	9.0	6.4543	0.0966
18383	C	2910	8.7	18.0864	9.8206	20452	C	3061	8.2	25.5720	16.3712	22355	C	3196	8.7	6.7815	16.6334
18593	C	2912	8.9	18.3218	12.7936	Plate 2703. R.A. 6 ^h 12 ^m						22456	C	3197	8.3	7.2807	18.6243
18666	C	2913	8.7	18.3354	14.1714							22111	C	3201	9.3	8.6489	10.7556
19027	C	2915	7.0	18.4710	18.3877	21537	C	3053	9.0	0.2320	21.5436	22277	C	3204	6.5	9.1124	14.2214
18741	C	2916	8.5	19.8851	15.2279	21109	B	2250	8.2	0.8239	9.4616	22497	C	3206	9.5	9.3302	19.6819
19442	C	2922	8.6	20.5406	25.9656	20802	B	2253	7.9	2.1399	1.2041	22498	C	3207	9.5	9.4322	19.5106
19342	C	2923	9.5	20.6660	23.3791	20803	B	2254	8.2	2.1507	0.8163	21904	B	2358	8.0	9.9621	5.2730
18962	C	2924	9.5	20.7071	17.4182	21342	C	3061	8.2	3.8678	16.3456	22582	C	3214	9.4	10.4290	20.8775
19283	C	2925	8.0	20.8227	22.6921	21059	B	2263	8.2	4.6339	8.0406	22501	C	3216	9.1	12.1205	19.2231
19405	C	2927	8.4	20.9268	24.5020	21422	C	3065	9.1	4.7868	18.9555	22467	C	3218	9.2	12.7376	17.9764
18151	B	2159	8.5	21.2718	5.2230												
18898	C	2939	9.1	23.4584	16.5165												
18969	C	2941	9.4	23.6327	17.4876												
19446	C	2944	9.0	23.7013	25.3950												
18407	C	2953	8.6	25.4610	10.1720												
19126	C	2954	9.3	25.5016	19.8031												

Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.						
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R.A. 6 ^h 20 ^m (continued)					R.A. 6 ^h 28 ^m (continued)					R.A. 6 ^h 36 ^m (continued)							
22545	C	3220	8·9	12·7904	20·6063	23955	C	3359	9·4	20·0205	21·6257	24384	B	2573	9·0	22·3057	8·9762
22502	C	3221	8·5	12·8313	19·8085	23917	C	3363	9·5	20·5614	20·7075	24276	B	2575	8·2	22·6257	3·7967
22585	C	3223	9·0	13·1001	20·8733	23193	B	2478	8·8	21·2034	6·8062	24669	C	3479	9·2	22·6440	22·8963
22546	C	3224	8·5	13·1632	20·4303	23722	C	3370	9·0	21·6752	16·6339	24219	B	2576	8·6	22·8344	0·5123
22118	C	3225	8·9	13·4022	10·2683	23364	C	3372	6·7	22·0631	9·1154	24671	C	3485	9·4	24·8709	22·4467
22121	C	3228	9·0	14·8953	10·7399	23687	C	3376	9·5	23·3865	15·4799	24280	B	2582	9·1	25·0314	3·3755
22247	C	3229	8·8	14·9408	13·3449	23688	C	3378	9·3	23·5241	14·9658	24221	B	2585	8·7	25·5681	0·2915
22248	C	3232	8·6	15·3205	13·0861	23522	C	3379	8·7	23·6138	12·0690	24297	B	2586	8·6	25·8927	4·1211
22470	C	3241	9·1	16·0706	18·1893	23689	C	3380	9·5	23·6511	15·5728						
22046	B	2389	9·1	16·3328	7·8649	24079	C	3382	8·7	24·3167	23·0058						
22749	C	3242	9·0	16·4772	24·9887	23264	B	2494	7·1	24·4384	7·4881						
22553	C	3243	9·4	16·6670	20·4243	24020	C	3389	9·3	25·7348	22·2510						
22050	B	2392	8·9	16·7237	8·1113												
	B	2393	9·0	16·7309	8·1236												
21871	B	2398	9·1	18·1155	4·8129												
22010	B	2400	9·0	18·3195	7·2535												
22127	B	2404	8·7	18·8476	9·9255												
22344	C	3261	8·8	19·9269	15·1774												
22597	C	3262	8·2	19·9432	21·2152												
22299	C	3269	8·7	21·2201	14·4054												
22428	C	3270	8·3	21·6085	17·5949												
22019	B	2416	9·0	22·6945	7·7045												
22516	C	3277	9·0	22·9184	18·9986												
22214	C	3279	9·2	23·0672	12·2795												
22350	C	3284	8·8	24·3740	15·5992												
22757	C	3285	9·5	24·5330	25·7226												
22635	C	3287	9·0	24·7170	22·0385												
22724	C	3288	8·4	25·0741	24·4678												
22760	C	3290	9·3	25·5071	25·1765												
22520	C	3292	9·0	25·8767	18·9663												
21986	B	2424	8·6	25·8996	6·4852												
Plate 2429. R.A. 6 ^h 28 ^m					Plate 2439. R.A. 6 ^h 36 ^m					Plate 500. R.A. 6 ^h 44 ^m							
23207	B	2416	9·0	0·8628	7·7222	24371	C	3372	6·7	0·2522	9·1423	24965	C	3474	7·8	0·0919	10·3608
23831	C	3277	9·0	1·2534	19·0122	24491	C	3376	9·5	1·6696	15·4869	24849	B	2573	9·0	0·4928	8·9995
23483	C	3279	9·2	1·3030	12·2916	24492	C	3378	9·3	1·7996	14·9708	24802	B	2575	8·2	0·7363	3·8157
23647	C	3284	8·8	2·6586	15·5916	24440	C	3379	8·7	1·8465	12·0730	25259	C	3479	9·2	1·0365	22·9139
24134	C	3285	9·5	2·9669	25·7112	24493	C	3380	9·5	1·9354	15·5759	24852	B	2582	9·1	3·1356	3·3600
23973	C	3287	9·5	3·0966	22·0248	24337	B	2494	7·1	2·6035	7·4806	25238	C	3485	9·4	3·2566	22·4305
24087	C	3288	8·4	3·4895	24·4483	24674	C	3382	8·7	2·7106	22·9981	24804	B	2585	8·7	3·6267	0·2686
24137	C	3290	9·3	3·9327	25·1502	24655	C	3389	9·3	4·1173	22·2218	24867	B	2586	8·6	4·0078	4·0931
23146	B	2424	8·6	4·0495	6·4566	24611	C	3391	9·0	4·4152	20·7897	24868	B	2589	8·7	4·4830	4·5004
23835	C	3292	9·0	4·2107	18·9357	24353	B	2497	8·8	4·4224	8·5062	24891	B	2591	9·0	4·8498	5·4506
23492	C	3298	9·0	6·4209	12·8029	24394	C	3392	9·1	4·4328	10·8460	25032	C	3490	8·9	5·1670	12·3378
23540	C	3297	9·0	6·4259	13·6339	24612	C	3395	8·7	5·5281	20·4897	25113	C	3495	9·4	6·0564	16·7223
24098	C	3308	8·0	9·4140	24·0371	24406	C	3398	8·7	5·6030	14·9394	25242	C	3496	9·0	6·1469	22·7440
23746	C	3310	9·1	9·6083	17·7857	24474	C	3399	8·9	5·7654	14·8142	25243	C	3501	9·1	7·1413	22·1448
23749	C	3315	8·7	10·2993	17·2425	24377	C	3402	6·8	5·8925	9·2445	24869	B	2599	8·8	7·1842	4·1306
23750	C	3317	8·7	10·3428	17·3085	24475	C	3403	8·9	5·9418	14·0301	24910	B	2604	8·4	8·5560	6·7070
22920	B	2443	8·8	10·8051	2·3831	24613	C	3401	8·7	5·9554	20·2604	24872	B	2608	9·1	9·4073	4·7461
23753	C	3327	9·4	12·2745	17·6476	24247	B	2508	9·0	7·0216	2·3652	25185	C	3516	9·4	11·3922	19·6141
23559	C	3340	7·6	15·3813	12·9872	24518	C	3410	8·7	7·2170	16·0682	25201	C	3518	7·3	11·7928	20·1770
23352	C	3342	8·7	15·4918	9·5492	24563	C	3411	9·0	7·3263	18·0445	25008	C	3520	9·0	12·0227	11·1873
22881	B	2465	8·9	15·7055	1·7316	24520	C	3417	9·3	8·1790	16·6587	25275	C	3525	9·4	12·6618	24·2573
23561	C	3354	9·1	18·6568	13·4799	24599	C	3419	8·8	8·3827	15·0222	24875	B	2619	8·5	13·4504	4·2720
24009	C	3357	9·5	19·5279	22·7753	24657	C	3418	9·2	8·3991	22·6889	25061	C	3533	8·6	14·6400	13·4202
23248	B	2472	8·9	19·7586	7·1494	24400	C	3420	9·0	9·3516	10·4108	25147	C	3534	8·7	14·6575	17·5750
23054	B	2474	9·0	20·0014	4·0993	24566	C	3423	8·0	9·8395	17·9925	25290	C	3535	8·9	15·2242	25·1376
						24401	C	3428	8·8	10·4535	9·9825	25266	C	3536	7·2	15·2441	23·5942
						24269	B	2525	8·7	10·5566	3·1215	25233	C	3539	9·2	15·8917	21·2210
						24230	B	2526	8·5	10·6228	1·7115	25267	C	3543	9·4	17·2953	23·2565
						24592	C	3437	9·3	12·5733	19·7830	25098	C	3544	8·9	17·3177	15·0046
						24593	C	3440	7·8	13·0866	19·7649	24993	C	3545	8·7	17·3480	9·9520
						24568	C	3442	8·8	13·3716	18·4968	25252	C	3548	9·2	17·6220	22·7070
						24428	C	3445	9·0	13·7877	11·0819	25253	C	3550	7·0	17·8685	22·3725
						24272	B	2541	8·6	15·4682	3·8021	25254	C	3560	8·7	19·8750	22·5792
						24684	C	3452	8·5	16·2526	23·2935	25080	C	3561	8·5	20·1086	14·1019

Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.						
+25°.	Number.	Mag.	1900°o.		+25°.	Number.	Mag.	1900°o.		+25°.	Number.	Mag.	1900°o.				
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Plate 2430. R.A. 6 ^h 52 ^m					R.A. 7 ^h 0 ^m (continued)					R.A. 7 ^h 8 ^m (continued)							
25944	C	3572	9.5	1.3523	12.3277	27477	C	3697	8.2	5.1634	18.9077	28168	C	3812	9.0	8.7487	21.3607
25898	C	3573	9.0	1.4025	11.6787	27733	C	3698	9.4	5.2486	24.4126	27990	C	3813	9.1	8.9225	10.3708
25666	B	2653	9.0	1.5526	7.3847	27102	B	2740	8.9	5.2581	9.1370	28170	C	3814	8.5	9.0980	21.5605
25356	B	2654	8.8	1.5616	1.6347	27478	C	3701	8.3	5.7634	18.8213	28197	C	3818	7.2	9.4206	23.9924
25358	B	2655	9.0	1.5794	0.9986	27264	C	3702	9.1	5.7825	12.9553	27849	B	2833	8.9	9.7200	4.1930
26369	C	3576	9.3	2.4787	20.4757	27155	C	3705	8.9	5.8063	9.9300	28009	C	3819	9.0	9.8041	11.4421
25558	B	2660	7.4	3.7558	5.5090	27338	C	3708	8.2	5.9692	15.8832	27992	C	3820	9.4	9.8034	10.4694
25308	B	2661	8.9	4.0954	0.5910	27156	C	3709	8.9	6.0828	10.2928	27877	B	2836	9.2	9.8652	5.1245
26011	C	3586	9.4	4.5419	13.0878	27005	B	2747	8.7	6.4874	7.3222	27996	C	3822	8.7	10.5304	10.8980
26431	C	3585	9.0	4.6049	20.9407	27519	C	3714	8.5	6.9556	19.8136	28152	C	3824	9.5	11.3902	20.2695
26014	C	3589	9.4	5.0835	13.4406	27620	C	3715	8.5	7.0074	21.3423	28058	C	3827	9.4	11.7948	14.9355
26321	C	3591	6.2	5.3225	19.0293	26913	B	2750	8.5	7.2949	5.5434	28073	C	3831	8.6	12.5425	15.2058
25410	B	2669	8.5	6.2358	2.6334	27526	C	3720	9.4	8.5145	19.4979	28153	C	3832	9.5	12.8846	20.2730
25796	B	2671	9.0	6.4428	8.9442	27064	B	2754	9.0	9.2591	7.9709	27839	B	2841	8.6	13.3941	3.2754
26441	C	3602	9.0	7.5545	21.4738	27572	C	3724	9.3	9.5428	20.8535	28010	C	3835	7.4	13.9326	11.5893
26068	C	3607	7.6	8.0610	14.6266	27233	C	3729	9.5	10.9900	12.5016	27841	B	2843	8.6	14.3361	3.1609
25743	B	2677	9.0	8.1669	8.2540	27198	C	3730	9.0	11.1693	11.5481	28139	C	3836	9.4	14.3906	19.3161
25516	B	2678	8.8	8.3148	4.5444	26973	B	2761	9.0	11.8822	6.5802	27808	B	2844	8.9	14.5554	0.7291
26594	C	3611	9.0	8.8150	24.5560	27738	C	3735	8.3	12.7649	24.6740	28046	C	3840	6.5	14.5803	13.7118
26447	C	3612	8.8	9.1899	20.8677	27582	C	3736	8.6	12.8747	20.8526	28076	C	3842	9.5	15.3677	15.8426
25625	B	2681	8.5	9.4252	6.1293	27274	C	3737	7.0	13.1994	13.1460	28127	C	3845	9.1	15.7416	18.5991
25964	C	3613	8.7	9.6438	12.3655	26761	B	2773	9.0	16.2038	1.6646	27920	B	2850	9.1	15.8605	6.3569
25858	C	3615	7.0	9.9523	10.2854	26930	B	2774	7.5	16.2698	4.8844	28012	C	3846	9.3	15.9167	11.2909
26077	C	3616	7.5	9.9905	14.0543	27173	C	3748	9.1	16.7545	10.8365	28077	C	3847	9.3	16.0035	15.8963
26450	C	3617	8.5	10.3433	21.5709	27121	B	2780	9.0	16.7608	9.7698	28129	C	3848	9.0	16.1743	18.7016
26599	C	3619	9.3	10.3823	24.5291	27590	C	3749	8.9	17.3505	20.2831	27823	B	2853	8.2	16.9275	1.3652
26189	C	3620	9.0	10.4017	16.1635	27080	B	2790	8.8	17.7574	8.0434	27939	B	2858	8.7	18.2108	7.7693
26500	C	3621	9.4	11.4510	21.9046	27319	C	3756	8.9	19.5345	14.7905	28002	C	3855	8.6	18.4544	11.1336
25969	C	3624	9.0	12.2483	12.2159	27320	C	3758	9.1	19.6192	14.7739	27956	B	2861	9.1	18.6609	8.8549
26084	C	3628	8.0	13.0439	14.2560	27675	C	3759	9.3	19.7085	22.6656	28047	C	3859	8.9	19.5379	13.8197
25924	C	3631	8.7	13.7890	11.2749	27640	C	3768	9.5	21.3549	20.9066	27826	B	2867	8.4	19.9803	1.7481
26033	C	3632	7.9	13.9358	13.6606	27502	C	3769	8.7	21.6490	18.0792	27958	B	2868	9.1	20.3000	9.0037
26294	C	3638	8.6	14.9517	18.5033	27245	C	3770	9.1	21.7915	12.5212	27976	C	3861	7.5	20.4085	9.5756
25980	C	3642	8.9	15.5323	12.7141	27680	C	3772	9.3	22.0682	21.9402	27900	B	2871	9.2	21.8131	5.4520
25981	C	3645	8.9	15.9469	12.5606	27719	C	3774	7.3	22.3292	23.7607	28189	C	3869	9.5	22.4606	22.5086
26250	C	3646	8.3	16.2931	17.4351	27720	C	3776	7.9	22.6719	23.7757	27844	B	2875	8.8	23.0018	3.1354
26251	C	3647	8.9	16.3631	17.4636	27681	C	3777	8.7	22.8700	22.6925	27979	C	3872	8.6	23.0734	9.5102
26415	C	3659	9.5	18.7810	20.1475	26900	B	2814	8.4	25.1067	4.3329	27867	B	2879	8.3	23.9396	4.1221
26353	C	3660	9.3	18.8422	19.8524	27372	C	3783	8.8	25.3858	15.5432	27904	B	2880	9.1	24.1119	5.8866
25770	B	2721	8.1	20.5695	8.4595							28135	C	3882	9.1	24.9086	18.8035
25603	B	2725	8.7	22.2882	5.6836							28191	C	3885	9.0	25.0738	23.0890
26473	C	3685	8.3	22.5890	21.5292							27982	C	3884	9.4	25.1262	10.2276
25660	B	2727	8.7	23.6000	6.8972							27944	B	2883	9.1	25.3895	8.1911
26357	C	3689	7.2	23.7541	19.8477							28192	C	3889	8.6	25.4181	22.3592
26359	C	3692	7.2	24.3723	19.1476							27811	B	2884	9.1	25.6737	0.5636
26625	C	3693	8.0	24.3919	24.9096												
25606	B	2735	5.3	24.8114	5.3430												
Plate 2440. R.A. 7 ^h 0 ^m					Plate 501. R.A. 7 ^h 8 ^m					Plate 2441. R.A. 7 ^h 16 ^m							
26903	B	2725	8.7	0.4267	5.7072	...	C	3770	9.1	0.0309	12.5519	28902	C	3869	9.5	0.8473	22.5289
27608	C	3685	8.3	0.9613	21.5477	28163	C	3772	9.3	0.4466	21.9665	28382	B	2875	8.8	1.1029	3.1489
26952	B	2727	8.7	1.7564	6.9018	28193	C	3774	7.3	0.7344	23.7829	28567	C	3872	8.6	1.2683	9.5224
27510	C	3689	7.2	2.1015	19.8488	28194	C	3776	7.9	1.0774	23.7929	28408	B	2879	8.3	2.0549	4.1221
27512	C	3692	7.2	2.7093	19.1395	28180	C	3777	8.7	1.2595	22.7066	28441	B	2880	9.1	2.2533	5.8840
27729	C	3693	8.0	2.8139	24.9006	27871	B	2814	8.4	3.2250	4.3160	28805	C	3882	9.1	3.2405	18.7874
26907	B	2735	5.3	2.9447	5.3304	28070	C	3783	8.8	3.6694	15.5205	28589	C	3884	9.4	3.3315	10.2097
26785	B	2737	9.0	4.3724	1.9294	28117	C	3787	8.5	4.6807	18.8863	28928	C	3885	9.0	3.4688	23.0699
27055	B	2739	9.0	4.4786	8.2428	27984	C	3788	8.8	5.2490	10.9509	28537	B	2883	9.1	3.5646	8.1696
						28071	C	3791	9.4	5.5154	15.4171	28303	B	2884	9.1	3.7363	0.5392
						28019	C	3795	9.4	6.3841	12.2841	28905	C	3889	8.6	3.8022	22.3349
						27986	C	3797	10.0	6.5607	11.0896						
						28085	C	3798	9.0	6.9414	16.5847						
						27988	C	3806	9.0	8.0229	10.8424						
						28204	C	3805	8.7	8.0819	24.8801						
						27875	B	2829	8.7	8.5264	5.2005						
						27876	B	2830	5.9	8.5277	4.5624						

Oxford No.	Cambridge or Berlin A. G. C.					Oxford No.	Cambridge or Berlin A. G. C.					Oxford No.	Cambridge or Berlin A. G. C.				
+25°.	Number.	Mag.	1900°0.			+25°.	Number.	Mag.	1900°0.			+25°.	Number.	Mag.	1900°0.		
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R.A. 7 ^h 16 ^m (continued)						R.A. 7 ^h 24 ^m (continued)						Plate 1337. R.A. 7 ^h 40 ^m					
28410	B	2886	8.8	4.2239	4.6228	29192	C	4017	8.3	18.0259	9.5780	30082	B	3074	8.1	1.9967	4.4498
28700	C	3895	9.4	4.9823	14.0702	29050	B	2996	7.9	18.4541	3.0771	30541	C	4122	9.4	2.6615	21.6466
28729	C	3903	9.0	9.0004	15.0141	29420	C	4022	9.5	19.3727	20.4684	30111	B	3078	8.6	4.2013	5.4211
28311	B	2901	9.5	9.4173	0.3888	29092	B	2998	9.4	19.9361	4.6147	30461	C	4133	9.4	5.1333	18.9212
28389	B	2903	9.3	9.5937	3.7803	29400	C	4032	9.5	21.1520	20.2187	30462	C	4135	9.5	5.4893	18.9737
28936	C	3908	8.5	10.0903	23.2601	29475	C	4035	8.7	21.6760	24.3472	30586	C	4137	9.1	5.9592	23.4975
28595	C	3909	8.8	10.3269	10.8066	29422	C	4037	8.7	22.7654	20.4162	30024	B	3086	8.6	6.0841	1.6995
28732	C	3910	9.0	10.3707	15.7483	29437	C	4039	9.5	23.6531	22.2112	30587	C	4138	9.3	6.2667	23.5300
28653	C	3912	9.4	10.4718	12.7482	29278	C	4040	8.9	23.8350	14.1823	30025	B	3087	9.3	6.3096	1.4635
28816	C	3919	8.5	11.4722	18.0336	29096	B	3010	9.0	24.0435	4.7331	30026	B	3088	9.0	6.3331	1.3257
28980	C	3920	8.2	11.7106	25.6012	29040	B	3016	8.7	25.3387	1.9741	30136	B	3090	6.8	7.3625	6.7911
28707	C	3924	9.0	12.1578	14.2259	29280	C	4048	9.0	25.4553	13.5797	30216	C	4142	9.0	7.4839	9.3195
28841	C	3925	9.0	12.1813	19.7297	29302	C	4051	8.0	25.8689	15.2609	30633	C	4143	6.3	7.6518	25.2799
28340	B	2909	9.1	12.3013	1.4803							30184	B	3095	3.6	8.6709	8.6645
28863	C	3926	9.0	12.3452	20.0516							30161	B	3100	8.6	9.9962	7.7255
28710	C	3929	8.9	14.1083	14.4164							30118	B	3103	9.1	10.5181	5.4117
28659	C	3934	9.1	15.5693	12.8292							30297	C	4153	8.9	11.5741	12.7300
28519	B	2919	9.1	16.2027	7.6399							30034	B	3113	8.6	14.6911	1.9107
28864	C	3937	8.9	16.2960	19.9613							30353	C	4163	9.0	16.0057	14.3650
28916	C	3938	9.4	16.4037	22.7206							30011	B	3116	8.6	16.2749	0.4803
28891	C	3939	8.7	16.4809	21.4943							30327	C	4166	9.0	16.8670	13.2693
28347	B	2922	9.5	16.5103	1.6122							30550	C	4169	8.8	17.0646	21.5808
28766	C	3940	5.0	16.7452	15.9161							30450	C	4175	9.0	18.2149	17.3792
28972	C	3947	9.5	19.0152	24.3869							30103	B	3126	9.0	20.3024	5.0094
28949	C	3948	9.2	19.2342	23.2317							30231	C	4187	9.5	21.5746	10.0386
28633	C	3953	9.0	22.4351	11.7073							30232	C	4189	7.4	21.9879	9.8898
28745	C	3956	8.6	22.7558	15.2745							...	B	3132	var.	22.0485	0.8297
28532	B	2943	9.0	25.8999	7.8576							30421	C	4191	8.5	22.3723	17.1345
												30170	B	3135	8.4	22.7652	7.2609
												30262	C	4204	8.8	24.7056	10.4039
												30128	B	3139	7.3	25.6937	6.0128
												30042	B	3141	8.4	26.0065	1.4958

Oxford No.	Cambridge or Berlin A. G. C.					Oxford No.	Cambridge or Berlin A. G. C.					Oxford No.	Cambridge or Berlin A. G. C.				
	Number.	Mag.	1900'o.		Number.		Mag.	1900'o.		Number.	Mag.		1900'o.				
			ξ.	η.				ξ.	η.				ξ.	η.			
R.A. 7 ^h 48 ^m (continued)						R.A. 7 ^h 56 ^m (continued)						R.A. 8 ^h 12 ^m (continued)					
30865	C	4252	7.5	18.4338	12.1583	31217	C	4358	9.3	25.5570	10.5270	32218	B	3306	8.7	5.3375	1.6318
30711	B	3179	7.1	18.6983	0.5445	31171	B	3260	8.7	25.6706	6.2666	32338	C	4437	9.4	5.4107	9.4869
30839	C	4264	8.9	22.6333	10.3877	31248	C	4359	9.5	25.6845	12.5861	32460	C	4439	9.4	6.1235	18.5087
30928	C	4269	9.5	24.6479	17.8036							32461	C	4442	9.1	7.2171	18.1749
												32397	C	4446	8.8	8.4096	13.0268
												32282	B	3316	9.1	8.4894	5.4641
												32387	C	4452	9.0	11.1124	12.8335
												32414	C	4454	7.2	11.9608	14.7570
												32516	C	4458	8.2	12.3548	22.0123
												32503	C	4463	9.0	13.7384	21.6174
												32299	B	3332	7.0	16.2745	6.8444
												32416	C	4474	9.0	16.6913	14.1617
												32318	C	4476	9.3	17.2050	7.8530
												32445	C	4477	8.4	17.2185	16.4634
												32319	C	4478	9.3	17.2787	7.6792
												32402	C	4479	8.4	18.0839	13.8277
												32240	B	3339	8.0	18.6803	2.4920
												32524	C	4485	8.3	19.1786	22.7523
												32287	B	3344	6.2	20.0852	5.0658
												32492	C	4488	7.5	20.2682	20.8360
												32405	C	4492	9.0	21.8298	13.7658
												32433	C	4493	9.0	21.9682	15.4388
												32292	B	3351	8.5	23.9999	5.1409
												32570	C	4500	8.2	25.7207	25.7403

Oxford No.		Cambridge or Berlin A. G. C.				Oxford No.		Cambridge or Berlin A. G. C.				Oxford No.		Cambridge or Berlin A. G. C.			
+25°.		Number.	Mag.	1900°0.		+25°.		Number.	Mag.	1900°0.		+25°.		Number.	Mag.	1900°0.	
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Plate 1342. R.A. 8 ^h 28 ^m						R.A. 8 ^h 36 ^m (continued)						R.A. 8 ^h 52 ^m (continued)					
33176	C	4554	7°0	1°3739	9°1809	33571	B	3518	8°8	17°3008	5°2487	34525	C	4763	8°9	16°2904	19°2552
33246	C	4557	9°0	2°2852	13°9038	33716	C	4669	8°8	18°0308	14°9206	34584	C	4765	9°0	17°7859	24°0847
33403	C	4561	7°4	5°6732	25°9435	33717	C	4674	8°5	19°8357	15°0470	34455	C	4768	9°0	18°1284	13°1409
33194	C	4562	8°9	5°7394	9°9864	33721	C	4680	8°9	23°4137	14°7682	34427	C	4770	8°9	19°2090	10°1723
33279	C	4563	8°9	6°3082	16°8217	33810	C	4683	7°9	24°1874	21°6493	34555	C	4775	9°5	19°5540	21°7636
33142	C	4564	5°8	6°4417	6°0403	33811	C	4685	9°0	24°4251	21°2322	34440	C	4776	8°5	20°0084	11°6524
33321	C	4567	9°3	7°8472	19°8642	33548	B	3530	9°2	25°0541	3°7331	34321	B	3623	9°1	20°3526	1°3982
33153	B	3411	8°5	8°4740	6°7016							34347	B	3627	8°7	21°1758	3°1235
33113	B	3413	8°5	8°8863	2°0393							34417	C	4782	9°3	21°4596	9°1805
33136	B	3414	9°2	8°9083	4°9228							34530	C	4784	8°9	21°9028	18°9178
33292	C	4571	8°5	9°1085	17°8819							34578	C	4791	8°8	24°1670	23°0951
33383	C	4572	8°9	9°3963	23°9762							34392	C	4797	9°4	25°8976	7°3362
33330	C	4574	8°9	10°0003	20°8604	Plate 1343. R.A. 8 ^h 44 ^m											
33144	B	3419	7°0	10°5233	6°1080	34050	C	4680	8°9	1°6862	14°7749	Plate 2444. R.A. 9 ^h 0 ^m					
33222	C	4582	8°0	13°4285	19°9000	34149	C	4683	7°9	2°5614	21°6438	34744	C	4784	8°9	0°2365	18°9469
33221	C	4584	8°7	13°6475	12°2188	34150	C	4685	9°0	2°7928	21°2229	34775	C	4791	8°8	2°5623	23°0896
33371	C	4585	8°4	13°9207	23°2260	33932	B	3530	9°2	3°1636	3°7172	34645	C	4797	9°4	4°0601	7°3075
33138	B	3424	8°4	14°1077	4°8207	34166	C	4689	8°5	4°5970	23°0848	34673	C	4798	5°4	4°5441	11°1823
33222	C	4587	9°2	14°4362	11°4380	33959	B	3542	9°0	7°0337	5°6947	34777	C	4801	8°8	6°0890	23°2396
33139	B	3427	8°7	15°3255	5°2461	34187	C	4694	9°0	7°3924	23°8441	34703	C	4802	9°2	6°3987	14°3251
33186	C	4596	9°0	17°2502	8°9097	34188	C	4696	9°3	7°6495	23°7798	34736	C	4806	8°9	7°9431	18°2529
33199	C	4597	9°4	17°9819	9°8413	34067	C	4697	9°5	8°4734	15°7971	34767	C	4812	8°7	9°0763	22°2272
33148	B	3441	7°2	18°8299	5°7637	34069	C	4700	9°5	9°4623	15°6935	34694	C	4813	8°0	10°3264	13°0414
33210	C	4603	9°0	20°9160	10°8321	33968	B	3549	8°8	9°4869	6°9729	34770	C	4817	9°3	12°0970	22°7199
33301	C	4606	9°0	21°6789	18°3024	34033	C	4705	8°9	13°9651	12°4346	34738	C	4818	9°0	12°2671	18°0636
33211	C	4605	9°5	21°6938	11°0116	33973	B	3563	9°1	17°3964	6°3554	34615	B	3645	8°3	13°7780	2°6901
33340	C	4607	8°8	21°7965	20°3805	34144	C	4713	8°9	17°7373	20°3251	34698	C	4824	9°5	15°0004	13°8603
33212	C	4613	9°2	23°6043	10°5408	33996	C	4718	8°0	19°2343	9°2212	34667	C	4825	8°7	15°4313	10°4767
33256	C	4614	9°1	23°7111	13°3436	34136	C	4719	8°5	19°2486	19°4224	34716	C	4827	9°2	17°1651	15°3732
33189	C	4616	9°1	24°1066	8°8925	33927	B	3570	9°0	19°4815	2°2460	34717	C	4831	8°8	18°1574	15°5839
33213	C	4620	9°5	24°7779	10°8521	33950	B	3571	9°0	19°4947	5°1808	34788	C	4833	7°2	18°4594	25°3550
33119	B	3456	9°1	24°7865	1°4096	33951	B	3572	8°9	19°8671	5°0326	34631	B	3662	9°3	19°4142	4°4138
33214	C	4621	9°5	25°1663	10°9335	34104	C	4725	9°2	21°6226	18°2047	34632	B	3663	9°2	19°4334	4°3944
33215	C	4622	9°5	25°2835	11°0917	33974	B	3577	8°8	24°1169	6°6870						
33230	C	4623	9°5	25°3045	11°5370												
Plate 2803. R.A. 8 ^h 36 ^m						Plate 2443. R.A. 8 ^h 52 ^m						Plate 1361. R.A. 9 ^h 8 ^m					
33788	C	4607	8°8	0°1518	20°4111	34372	B	3577	8°8	2°2701	6°6843	34951	C	4856	8°4	6°2938	22°9537
33634	C	4613	9°2	1°8145	10°5451	34506	C	4733	9°0	4°8480	18°0333	34952	C	4858	8°8	6°9276	22°9654
33693	C	4614	9°1	1°9626	13°3460	34374	B	3589	9°4	5°1694	6°0378	34804	B	3678	8°8	7°7598	1°4879
33604	C	4616	9°1	2°2924	8°8896	34375	B	3590	9°3	5°3071	6°1471	34918	C	4860	9°0	7°7783	18°7604
33507	B	3456	9°1	2°8618	1°3977	34547	C	4735	9°5	6°1587	21°6865	34962	C	4867	8°5	11°9060	23°2204
33635	C	4620	9°5	2°9924	10°8390	34509	C	4740	9°0	7°4826	18°3976	34857	C	4869	7°5	12°3173	9°4591
33636	C	4621	9°5	3°3820	10°9149	34434	C	4744	7°0	8°4935	10°9926	34835	B	3688	9°1	12°4193	6°6346
33638	C	4622	9°5	3°5044	11°0714	34559	C	4745	9°0	9°0776	22°3710	34963	C	4870	9°0	12°4203	23°1441
33656	C	4623	9°5	3°5293	11°5163	34364	B	3598	8°6	9°1049	4°9829	34938	C	4871	8°3	12°6462	21°0010
33508	B	3458	6°6	4°4449	1°5154	34550	C	4746	9°5	9°5568	21°8069	34849	C	4872	9°0	13°1899	8°9697
33695	C	4624	9°4	4°6096	13°3655	34495	C	4747	8°9	10°0142	17°6958	34947	C	4875	8°3	13°8628	21°4537
33639	C	4626	8°5	5°1933	10°6355	34411	C	4751	9°5	12°8183	9°6790	34915	C	4878	7°0	14°7372	18°1204
33728	C	4628	9°0	5°3916	15°9681	34435	B	3607	9°0	12°8503	11°5700	34968	C	4880	9°0	15°1340	24°7681
33742	C	4629	8°6	5°5368	16°7835	34379	B	3613	8°5	13°7204	6°8099	34859	C	4882	8°7	15°5563	9°3134
33678	C	4631	8°6	6°7557	12°6709	34403	C	4755	9°0	14°8904	8°1908	34842	B	3693	9°1	16°4191	7°5074
33622	C	4640	9°5	8°8025	9°6781	34563	C	4756	8°7	15°0715	22°2094	34820	B	3696	8°8	17°3765	3°2263
33847	C	4639	9°4	8°8108	24°9511	34366	B	3616	7°5	15°5087	5°2384						
33525	B	3508	8°4	13°2345	2°8543	34564	C	4758	7°7	15°5712	22°5547						
33627	C	4658	8°9	13°2639	9°5640	34565	C	4759	9°0	15°7586	22°2660						
33757	C	4660	9°0	13°5056	17°4325												
33759	C	4663	8°8	14°3438	17°7810												

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R.A. 9 ^h 8 ^m (<i>continued</i>)					R.A. 9 ^h 24 ^m (<i>continued</i>)					R.A. 9 ^h 40 ^m (<i>continued</i>)							
34830	B	3697	9·3	17·3806	5·6797	35522	C	5002	9·4	21·3837	22·8416	36088	C	5105	9·3	23·8205	24·3503
34875	C	4886	9·0	18·6057	12·2796	35536	C	5003	9·5	21·4720	23·6096	36074	C	5106	9·2	23·8416	23·0239
34884	C	4890	8·7	21·0235	13·6788	35385	C	5010	9·1	24·2145	9·5277	36082	C	5107	8·6	24·5069	23·5463
34810	B	3710	7·6	22·7361	1·9018	35458	C	5013	8·9	24·4317	16·8477	36004	C	5109	7·0	25·2192	13·3709
34942	C	4903	9·2	25·6743	20·5999												
Plate 2426. R.A. 9 ^h 16 ^m					Plate 2427. R.A. 9 ^h 32 ^m					Plate 1364. R.A. 9 ^h 48 ^m							
35017	B	3710	7·6	0·8188	1·9191	35684	C	5010	9·1	2·4097	9·5232	36172	C	5098	8·6	0·8067	11·9545
35205	C	4903	9·2	4·0323	20·5721	35758	C	5013	8·9	2·7347	16·8389	36228	C	5100	8·9	1·2329	21·1449
35104	C	4908	8·8	6·3212	10·9109	35761	C	5016	9·0	5·6529	17·2129	36174	C	5101	8·4	1·6111	11·4345
35208	C	4909	8·0	6·7572	20·2675	35653	B	3793	9·1	8·1312	6·7805	36191	C	5103	9·0	1·9305	15·0465
35090	C	4912	8·8	7·1007	9·1546	35805	C	5036	9·1	12·1190	22·6966	36244	C	5104	9·0	2·0643	25·8552
35106	C	4914	7·6	7·6321	11·0984	35704	C	5038	8·9	12·6239	11·1550	36237	C	5105	9·5	2·2344	24·3499
35212	C	4921	7·0	11·2737	20·1033	35735	C	5039	6·5	13·3097	14·4393	36232	C	5106	9·2	2·2358	23·0234
35239	C	4923	8·7	12·0382	22·3986	35665	B	3803	8·7	13·6146	7·1959	36234	C	5107	8·6	2·9089	23·5356
35147	C	4931	9·0	16·6065	15·3005	35791	C	5040	9·0	14·2426	20·4468	36185	C	5109	7·0	3·4708	13·3511
35217	C	4933	6·7	17·7323	20·3311	35611	B	3805	8·0	14·4564	0·9722	36110	B	3856	8·9	4·6312	2·4898
35102	C	4934	8·2	17·8965	9·9617	35806	C	5041	8·3	14·6565	22·7956	36124	B	3858	8·4	5·6540	4·9441
35109	C	4938	7·3	19·7204	11·6312	35695	C	5047	9·0	16·2903	10·6156	36219	C	5113	9·0	6·4032	19·9465
35014	B	3745	7·2	20·0073	1·1161	35808	C	5050	6·9	16·9613	22·8159	36212	C	5114	8·8	6·6876	18·1316
35219	C	4944	8·0	21·6587	20·8864	35770	C	5054	8·2	20·2245	18·7111	36201	C	5116	9·0	7·1141	16·5817
35150	C	4947	8·3	22·3786	15·0080	35668	B	3817	8·9	21·1578	7·7170	36197	C	5117	9·0	7·4622	15·1448
35220	C	4948	9·3	22·4778	20·3912	35650	B	3820	9·2	24·0242	5·0725	36176	C	5119	5·8	8·1270	11·4420
35121	C	4951	9·2	22·9521	12·1971	35836	C	5065	7·7	25·4454	25·6038	36220	C	5122	7·9	9·1099	19·9352
35201	C	4952	9·1	23·1861	19·7179	35692	C	5066	9·4	25·7890	9·1040	36202	C	5127	9·5	9·5037	17·1415
35279	C	4957	8·5	24·8077	25·1541							36193	C	5143	7·4	16·8823	14·3718
Plate 1537. R.A. 9 ^h 24 ^m					Plate 2744. R.A. 9 ^h 40 ^m					Plate 2434. R.A. 9 ^h 56 ^m							
35425	C	4947	8·3	0·6547	15·0299	35928	B	3820	9·2	2·1536	5·0711	36122	B	3886	9·0	24·7947	4·1632
35491	C	4948	9·3	0·8333	20·4115	36091	C	5065	7·7	3·8774	25·5785						
35394	C	4951	9·2	1·1867	12·2109	35956	C	5066	9·4	3·9776	9·0765						
35480	C	4952	9·1	1·5316	19·7275	35907	C	5067	8·5	5·1736	1·7173						
35540	C	4957	8·8	3·2332	25·1387	35965	C	5069	9·0	6·3834	9·5878						
35493	C	4962	9·1	7·6418	21·1897	35922	B	3829	8·5	6·5813	3·8947						
35326	B	3766	8·9	10·2301	3·8910	35995	C	5070	8·6	6·6703	13·7730						
35494	C	4971	9·2	11·0437	20·7680	35996	C	5071	8·9	6·7554	13·5506						
35417	C	4977	8·3	13·9226	14·4196	36062	C	5074	8·8	8·5643	22·1006						
35487	C	4980	9·0	14·6065	19·6021	36070	C	5076	8·9	8·8279	22·7680						
35454	C	4982	9·0	16·0895	16·7530	36063	C	5077	9·0	9·3719	21·4011						
35478	C	4985	8·5	16·6168	18·8427	...	B	3835	7·2	11·8354	0·2180						
35488	C	4988	9·0	17·5750	19·7418	35924	B	3836	3·0	13·4874	3·8175						
35390	C	4989	8·6	17·7797	11·2637	35939	B	3842	8·7	15·0067	5·8670						
35440	C	4992	9·0	18·3243	15·9837	35960	C	5085	9·5	15·3279	9·2100						
35466	C	4993	8·5	18·6880	17·8505	35999	C	5088	9·5	17·6213	13·7439						
35329	B	3785	9·0	19·4386	3·7072	35918	B	3844	7·0	17·6589	2·3285						
35532	C	4995	9·3	19·4464	23·4863	36057	C	5093	9·1	20·6075	20·6941						
35534	C	4996	9·2	19·8489	24·2142	36058	C	5094	9·2	20·7086	21·1814						
35510	C	4998	9·3	19·9681	21·5694	35992	C	5095	7·8	21·2212	13·1576						
35535	C	4999	9·2	20·3100	24·0218	35981	C	5098	8·6	22·5760	11·9352						
						36059	C	5100	8·9	22·8666	21·1306						
						35983	C	5101	8·4	23·3879	11·4271						
						36098	C	5104	9·0	23·6284	25·8529						
						36012	C	5103	9·0	23·6540	15·0435						

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R.A. 10 ^h 44 ^m (continued)						Plate 1391. R.A. 11 ^h 8 ^m						R.A. 11 ^h 24 ^m (continued)					
38272	C	5523	8.3	17.4561	12.7817	38864	C	5647	6.0	0.6610	15.4514	39358	C	5762	8.6	8.2902	25.7844
38211	B	4116	8.8	17.9280	1.7019	38875	C	5655	9.5	4.3215	17.3703	39232	C	5763	8.8	8.2934	7.9840
38204	B	4117	8.7	18.6032	0.1820	38891	C	5657	8.7	5.6490	21.1342	39233	C	5764	8.5	8.3243	8.1453
38296	C	5529	9.5	19.6700	16.3430	38876	C	5658	9.0	5.7628	17.3347	39256	C	5767	9.0	9.4168	11.2876
38315	C	5537	9.3	21.6361	20.4183	38877	C	5666	8.9	8.6997	17.5487	39275	C	5769	9.0	10.4864	13.3151
						38867	C	5667	8.1	10.6998	15.3358	39346	C	5770	8.2	12.2368	24.1662
						38809	B	4209	8.9	10.8569	1.5884	39296	C	5778	9.4	14.4677	17.1098
						38897	C	5670	9.2	12.5885	24.1510	39312	C	5779	7.7	14.6500	18.9804
						38829	B	4211	9.2	13.3428	6.3471	39305	C	5780	7.7	15.0731	18.2263
						38887	C	5674	8.4	13.9534	20.8004	39336	C	5781	7.5	15.3157	23.2693
						38825	B	4214	7.8	15.1077	5.6492	39354	C	5786	9.3	17.0771	25.0438
						38868	C	5677	9.0	17.0294	15.8448	39219	B	4287	8.7	19.7793	6.0950
						38886	C	5678	8.6	17.2508	19.3781	39265	C	5790	7.1	20.1036	11.3773
						38843	C	5681	9.5	17.8646	11.1147	39266	C	5793	8.4	22.1539	11.5522
						38846	C	5690	9.0	21.1662	10.3048	39299	C	5794	8.9	22.6459	16.3593
						38882	C	5695	9.5	23.5372	18.1981						
						38899	C	5696	7.4	24.7575	25.1403						
						38890	C	5698	7.8	24.9972	20.2233						
Plate 2729. R.A. 10 ^h 52 ^m						Plate 1392. R.A. 11 ^h 16 ^m						Plate 2768. R.A. 11 ^h 32 ^m					
38560	C	5549	6.3	5.6506	25.2971	39092	C	5695	7.5	1.8603	18.2025	39445	C	5793	8.4	0.3789	11.5777
38418	B	4132	8.7	5.9648	4.4684	39122	C	5696	7.4	3.1828	25.1256	39474	C	5794	8.9	0.9419	16.3772
38510	C	5551	9.3	6.7587	16.1514	39106	C	5698	7.8	3.3500	20.2056	39443	C	5803	9.2	8.6420	10.8767
38517	C	5554	4.0	8.1271	16.4079	39113	C	5702	8.8	5.0906	22.3972	39506	C	5804	9.5	8.7153	23.8191
38531	C	5555	9.4	8.3520	19.3230	39116	C	5704	9.0	5.8300	23.2141	39409	B	4303	8.5	8.9657	4.0808
38542	C	5556	9.5	8.6187	21.1463	39111	C	5705	9.0	5.8354	8.6291	39466	C	5806	8.9	9.1388	14.9563
38569	C	5560	7.0	10.7111	25.4152	39128	C	5710	9.0	9.8854	25.5121	39491	C	5814	7.0	10.9168	19.9981
38555	C	5565	8.6	12.3004	22.6885	39012	C	5713	8.9	11.1007	2.9792	39492	C	5816	8.9	13.0636	19.4959
38456	C	5567	7.7	12.6088	9.1080	39041	B	4249	9.3	11.6454	7.9308	39509	C	5818	7.9	13.5368	24.6762
38492	C	5568	8.8	13.2044	12.4720	39026	B	4250	9.0	12.0987	5.5823	39510	C	5822	8.2	14.6907	24.4164
38479	C	5571	7.8	15.0352	11.9251	39123	C	5714	9.5	12.2809	25.1647	39480	C	5821	9.3	14.6944	18.0378
38552	C	5576	9.1	18.1619	22.1519	39129	C	5718	9.0	14.8230	25.3981	39458	C	5823	8.4	15.5552	13.3452
38565	C	5579	8.5	19.0777	24.7152	39082	C	5719	9.4	15.8202	16.6985	39402	B	4318	8.6	16.1568	0.5638
38545	C	5581	9.5	19.5100	21.0148	39014	B	4256	9.0	16.4172	3.1960	39424	B	4321	8.6	17.6550	5.3254
38556	C	5582	8.6	19.5250	22.9193	39083	C	5722	8.2	16.7851	16.3853	39507	C	5829	7.7	19.1052	23.2948
38507	C	5583	9.1	19.6566	14.7220	39130	C	5727	9.4	18.7161	25.4446	39488	C	5831	9.5	19.5132	18.4694
38558	C	5586	8.7	21.2440	23.4280	39060	C	5732	9.1	19.8260	12.6458	39439	C	5835	9.0	20.8553	9.1016
38415	B	4154	8.4	21.8207	3.9493	39097	C	5734	9.0	19.9255	19.0251	39461	C	5837	8.8	21.0006	14.0611
38459	C	5593	8.5	22.7959	8.3309	39119	C	5736	9.1	21.3232	23.9933	39419	B	4326	6.6	21.0584	4.1676
38553	C	5594	8.9	23.0701	22.1493	39061	C	5742	9.1	23.4094	13.0017	39407	B	4328	8.6	21.3210	2.6962
38495	C	5595	9.2	24.1522	12.9774	39062	C	5746	9.1	23.9944	12.4290	39408	B	4331	8.8	21.8120	2.8673
						39125	C	5747	9.3	24.1668	24.5354	39482	C	5840	8.4	23.8898	17.3689
						39107	C	5753	9.3	25.8984	21.0627	...	B	4338	8.4	25.9948	1.1155
Plate 2730. R.A. 11 ^h 0 ^m						Plate 2731. R.A. 11 ^h 24 ^m						Plate 2732. R.A. 11 ^h 40 ^m					
38642	C	5593	8.5	0.9734	8.3471	39268	C	5742	9.1	1.6559	13.0086	39713	C	5840	8.4	2.2006	17.3683
38750	C	5594	8.9	1.4515	22.1605	39269	C	5746	9.1	2.2323	12.4273	39601	B	4338	8.4	4.0655	1.0865
38689	C	5595	9.2	2.3981	12.9734	39351	C	5747	9.3	2.5833	24.5296	39624	C	5844	8.5	5.5976	6.5160
38619	B	4167	8.4	4.8421	3.5715	39318	C	5753	9.3	4.2633	21.0313	39672	C	5850	9.5	9.0956	12.3088
38735	C	5599	9.5	6.0088	19.7341	39332	C	5754	9.0	5.9574	22.6623	39633	C	5851	7.0	9.1323	7.7922
38743	C	5601	9.5	6.7716	20.4591	39314	C	5759	7.3	7.2516	19.9504	39642	C	5852	9.2	9.4936	8.6463
38763	C	5605	8.6	7.3068	24.1637							39740	C	5854	6.2	10.3364	22.2781
38679	C	5607	9.5	9.1616	11.7127							39673	C	5855	9.2	11.0510	12.3065
38680	C	5613	9.5	10.7734	11.6647							39645	C	5857	9.0	11.6005	8.4696
38746	C	5614	9.4	10.9077	20.8956												
38681	C	5616	9.5	11.1461	11.5128												
38751	C	5620	7.9	12.8234	21.9218												
38747	C	5621	9.2	12.9089	20.6786												
38703	C	5625	9.2	13.5272	14.9584												
38718	C	5626	9.5	14.1954	16.9848												
38665	C	5628	8.4	15.0803	10.2052												
38772	C	5636	7.2	17.6095	25.9437												
38726	C	5638	9.0	18.5640	17.4290												
38711	C	5647	6.0	22.3787	15.4294												

Oxford No.	Cambridge or Berlin A. G. C.					Oxford No.	Cambridge or Berlin A. G. C.					Oxford No.	Cambridge or Berlin A. G. C.				
+25°.	Number.	Mag.	1900°0.			+25°.	Number.	Mag.	1900°0.			+25°.	Number.	Mag.	1900°0.		
			ξ'.	η'.					ξ'.	η'.					ξ'.	η'.	
R.A. 11 ^h 40 ^m (continued)						R.A. 11 ^h 56 ^m (continued)						Plate 2800. R.A. 12 ^h 20 ^m					
39735	C	5864	8.3	13.9086	21.0100	40071	C	5970	9.4	19.3739	15.5919	40671	C	6075	8.6	1.4181	10.3090
39688	C	5865	9.5	14.0315	14.1443	40103	C	5971	8.8	20.1138	20.9794	40654	C	6076	8.8	1.5237	8.9461
39763	C	5868	9.4	14.9580	25.5937	40093	C	5974	7.3	20.9143	18.9635	40724	C	6079	7.3	2.3216	20.0220
39694	C	5873	9.0	16.0781	15.0669	40044	C	5976	7.8	21.4299	9.1437	40734	C	6080	9.5	3.1232	20.9460
39637	B	4357	9.0	17.1722	7.4063	40110	C	5980	9.5	24.7327	23.3524	40726	C	6081	7.5	3.2899	19.6590
39604	B	4360	9.0	17.3286	0.5668	40083	C	5984	9.5	25.7289	16.4726	40692	C	6082	8.6	3.5196	13.8303
39618	B	4361	6.3	18.0233	4.3144							40735	C	6087	9.4	5.0427	20.9514
39680	C	5879	7.6	18.7991	12.7787							40711	C	6088	6.8	5.2887	16.9657
39656	C	5884	9.3	20.9094	10.6153							40698	C	6096	7.1	8.8414	14.7826
												40605 B 4509 8.7 9.0377 0.8055					
												40642 B 4510 8.5 10.3563 7.4424					
												40612 B 4511 9.0 11.0053 1.9160					
												40637 B 4514 5.5 13.6048 6.7806					
												40664 C 6113 9.3 16.4029 9.7809					
												40722 C 6122 9.0 19.0863 18.2815					
												40709 C 6124 8.0 19.6555 15.5421					
												40676 C 6126 8.6 20.0098 10.3888					
												40731 C 6130 8.3 21.7382 20.0825					
												40660 C 6136 5.7 25.1350 8.9928					
												40723 C 6138 9.3 25.6987 18.9770					
												40695 C 6137 9.0 25.7323 13.9431					

Oxford No.	Cambridge or Berlin A. G. C.					Oxford No.	Cambridge or Berlin A. G. C.					Oxford No.	Cambridge or Berlin A. G. C.				
	Number.	Mag.	1900°0.				Number.	Mag.	1900°0.				Number.	Mag.	1900°0.		
			ξ'.	η'.	ξ'.				η'.	ξ'.	η'.				ξ'.	η'.	
R.A. 12 ^h 36 ^m (continued)						R.A. 12 ^h 52 ^m (continued)						R.A. 13 ^h 0 ^m (continued)					
41047	C	6193	9.5	8.0186	12.1244	41549	C	6310	9.1	17.6752	9.5742	41722	B	4707	8.1	25.1500	6.1696
41085	C	6196	8.7	10.6679	19.4551	41550	C	6317	9.1	21.1297	9.7854	83344					
41071	C	6197	8.7	10.6990	15.3772	41597	C	6319	9.2	21.5618	20.7918	41739	C	6373	9.0	25.5550	11.3409
41008	B	4578	9.1	10.9863	2.3964	41519	B	4659	9.0	21.8549	4.0261	83383					
41061	C	6212	9.2	18.7627	13.7743	41509	B	4663	8.4	23.1661	3.3262	41752	C	6374	9.1	25.6981	16.8482
41045	C	6213	8.2	18.8271	11.1905	41558	C	6321	7.4	24.4147	11.3173	83426					
41067	C	6214	8.5	19.2126	14.9096	41609	C	6324	9.1	25.1551	23.6437						
41072	C	6216	9.2	19.5230	16.6650												
41028	B	4591	9.0	19.8414	7.5359												
41062	C	6221	9.0	22.2780	13.8700												
41073	C	6223	8.6	22.4099	16.6934												
41110	C	6226	9.5	23.4784	25.5829												
41014	B	4594	8.0	24.3032	2.7309												
41083	C	6233	9.0	25.6037	18.6790												
Plate 2823. R.A. 12 ^h 44 ^m						Plates 396 and 2801. R.A. 13 ^h 0 ^m						Plates 387 and 2824. R.A. 13 ^h 8 ^m					
41326	C	6221	9.0	0.5373	13.8934	41706	B	4663	8.4	1.2699	3.3375	83763	C	6364	6.9	0.0443	17.4240
41358	C	6223	8.6	0.7109	16.7149	83317						41832					
41450	C	6226	9.5	1.9105	25.5875	41737	C	6321	7.4	2.6362	11.3096	83711	C	6371	9.1	2.6379	13.3575
41212	B	4594	8.0	2.3979	2.7258	83376						41861					
41390	C	6233	9.0	3.9336	18.6525	41767	C	6324	9.1	3.5583	23.6232	83824	C	6370	9.5	2.6609	22.8316
41342	C	6236	8.5	4.8206	15.0368	83498						41815					
41360	C	6237	8.9	4.8961	16.2799	41780	C	6326	8.9	6.1893	24.8859	83640	B	4707	8.1	3.2954	6.1519
41218	B	4600	9.0	6.3843	4.0948	83508						41828					
41275	C	6241	6.7	6.5520	9.4030	41703	B	4671	8.2	6.5543	1.4461	83694	C	6373	9.0	3.7766	11.3164
41288	C	6244	8.6	8.5402	10.5114	83327						41842					
41265	C	6246	7.1	10.4700	8.6941	41709	C	6330	9.3	8.1367	21.8634	83752	C	6374	9.1	4.0009	16.8206
41266	C	6247	9.1	10.5812	8.3726	83322						41834					
41408	C	6249	8.8	11.3664	21.1873	41781	C	6331	8.3	8.3801	9.3858	83732	C	6376	9.3	5.7313	14.6151
41366	C	6251	8.9	12.0368	16.7170	83365						41802					
41380	C	6253	6.0	12.7859	17.6701	41712	B	4679	7.3	8.4071	5.3720	83605	B	4712	9.0	6.6865	1.2758
41283	C	6260	9.0	16.1744	9.1653	83329						41845					
41454	C	6271	8.7	20.4688	25.6709	41709	B	4681	9.3	9.7256	3.1752	83758	C	6387	9.0	9.5606	16.3133
41449	C	6275	8.9	21.5474	25.0449	83322						41839					
41438	C	6277	8.6	21.9190	24.0397	41781	C	4682	9.2	9.7383	3.1661	83745	C	6389	9.2	10.6256	15.8692
41226	B	4632	9.3	23.2252	4.0261	83509						41826					
41419	C	6281	8.4	24.8636	21.2959	41713	C	6336	9.0	10.0845	24.6732	83688	C	6391	6.5	11.1612	10.4904
						83329						41835					
						41730	B	4689	9.1	13.5784	5.5111	83735	C	6392	8.8	11.1682	14.6861
						83366						41869					
						41762	C	6340	9.0	13.8628	9.8913	83850	C	6398	8.9	13.8345	24.5093
						83457						41859					
						41715	C	6342	9.0	14.4224	19.2109	83818	C	6410	9.3	18.9123	21.9324
						83331						41822					
						41771	B	4691	9.0	15.5741	5.5592	83680	C	6415	9.2	22.7233	9.8234
						83480						41805					
						41750	C	6348	9.0	16.4338	21.6222	...	B	4749	9.0	25.9112	3.1129
						83424											
						41763	C	6352	8.8	18.5312	16.6582						
						83460											
						41783	C	6355	8.8	18.7531	19.9013						
						83512											
						41723	C	6360	9.3	20.1420	24.0680						
						83351											
						41724	B	4698	8.0	20.8070	7.4913						
						83352											
						41754	C	4699	8.2	20.8559	7.6138						
						83436											
						41702	C	6364	6.9	21.7331	17.3923						
						83303											
						41775	B	4702	9.2	21.9059	0.3867						
						83497											
						41743	C	6370	9.5	24.2694	22.8385						
						83404											
Plate 1521. R.A. 12 ^h 52 ^m						Plates 397 and 2825. R.A. 13 ^h 16 ^m						Plates 397 and 2825. R.A. 13 ^h 16 ^m					
41605	C	6277	8.6	0.3282	24.0682	41925	C	6415	9.2	0.9229	9.8407						
41512	B	4632	9.3	1.3393	4.0365	83981											
41595	C	6281	8.4	3.2323	21.2799	41908	B	4749	9.0	4.0113	3.0848						
41577	C	6283	8.1	4.9589	15.1722	83913											
41580	C	6285	8.8	5.1022	16.7388	41934	C	6419	9.5	4.4035	12.5174						
41560	C	6291	8.8	8.1006	12.3664	84010											
41504	B	4648	8.9	10.7312	2.3908	41942	C	6430	8.0	7.8754	14.6337						
41546	C	6299	9.2	12.9242	10.0153	84038											
41561	C	6301	8.8	13.3691	12.2560												
41589	C	6302	8.0	14.6239	18.9148												
41570	C	6307	9.5	15.6208	13.6610												
41571	C	6308	9.4	16.6356	13.7845												

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	Number.	Mag.	1900°0.			Number.	Mag.	1900°0.			Number.	Mag.	1900°0.	
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.
R.A. 13 ^h 48 ^m (continued).					R.A. 13 ^h 56 ^m (continued)					Plate 1546. R.A. 14 ^h 12 ^m				
42308 85422 42356 85618 42314 85435 42357 85620 42358 85601 42373 85689 42374 85691 42305 85414 42369 85671 42302 ... 42370 85673 42325 85510 42326 85512 42303 85409 42380 85725 42381 85727 42345 85570 42319 85464 42350 85595 42355 85612 42306 85418 42367 85663 42360 85631	B C B C B C C C B C B C													

Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.						
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			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.			
Plate 2735. R.A. 14 ^h 28 ^m					Plate 2737. R.A. 14 ^h 44 ^m					R.A. 15 ^h 0 ^m (continued)							
43402	C	6845	9°0	0°7982	17°8616	43821	C	6956	8°4	2°9278	15°2616	44410	C	7070	8°5	14°0171	13°2970
43368	C	6848	8°0	1°5536	12°5714	...	B	5146	8°9	3°3954	0°2794	44516	C	7071	8°0	14°0998	23°2251
43432	C	6858	9°0	5°3974	22°4117	43822	C	6958	8°2	3°9025	14°5771	44401	C	7072	9°4	14°5936	11°4872
43333	B	5090	9°1	5°9511	7°8132	43717	B	5151	8°7	5°9385	2°7709	44402	C	7073	9°1	15°0083	11°7120
43418	C	6861	8°3	7°5469	19°4184	43711	B	5154	8°8	7°5978	1°5367	44508	C	7074	9°4	16°2757	21°3721
43357	C	6863	9°1	9°5490	12°1470	43813	C	6964	8°7	8°3425	13°0186	44361	B	5234	8°9	17°2311	6°8205
43371	C	6865	9°0	9°6947	12°5940	43749	B	5156	9°3	8°9077	5°5282	44444	C	7077	8°8	18°2197	16°9137
43415	C	6866	9°4	9°8506	19°1525	43729	B	5157	8°3	9°8615	3°3689	44437	C	7084	4°9	20°8757	16°1389
43358	C	6868	9°0	10°1761	11°9191	43754	B	5160	7°0	10°8267	7°1755	44446	C	7086	9°2	21°5588	16°6629
43416	C	6874	9°4	14°2683	18°8373	43897	C	6971	8°3	11°4466	23°6727	44519	C	7092	9°3	24°0594	22°8164
43442	C	6877	9°1	16°5635	24°6010	43794	C	6972	8°5	11°6580	11°2202	44475	C	7093	6°3	24°4754	18°9383
43436	C	6880	9°2	16°7960	24°2107	43795	C	6976	6°1	12°8824	10°3840	44376	B	5248	8°9	25°2686	8°3944
43437	C	6885	9°2	17°4379	24°2011	...	B	5170	8°4	12°8874	10°3847						
43351	C	6886	8°1	18°0321	10°9772	43814	C	6977	9°3	13°2361	13°1870						
43352	C	6888	8°1	18°2722	11°0744	43816	C	6979	8°5	13°9729	13°0070						
43363	C	6892	9°0	19°2455	11°5312	43788	C	6980	9°1	14°0180	9°9513						
43303	B	5105	8°4	20°1113	0°4773	43703	B	5173	8°6	14°3233	0°7059						
43381	C	6897	9°1	20°4319	13°9434	43871	C	6983	6°8	15°2477	19°8040						
43421	C	6899	9°4	22°1296	19°8954	43827	C	6987	7°0	17°1083	14°6229						
43413	C	6900	8°0	22°1902	17°5624	43742	B	5182	5°0	17°8869	4°9003						
43343	C	6901	8°3	22°3425	8°8997	43828	C	6997	8°7	22°1689	15°0307						
43387	C	6903	9°3	22°7104	14°6648	43735	B	5187	7°2	24°0532	3°5618						
43327	B	5110	8°0	23°3050	6°0523												
43309	B	5112	8°0	24°0422	1°7295												
43365	C	6907	7°4	25°0141	11°8278												
Plate 2736. R.A. 14 ^h 36 ^m					Plate 1545. R.A. 14 ^h 52 ^m					Plate 2739. R.A. 15 ^h 8 ^m							
43661	C	6899	9°4	0°4778	19°9210	...	C	6997	8°7	0°4453	15°0558	44806	C	7092	9°3	2°4505	22°8125
43645	C	6900	8°0	0°5040	17°5871	44029	B	5187	7°2	2°1603	3°5603	44769	C	7093	6°3	2°8094	18°9288
43561	C	6901	8°3	0°5285	8°9226	44130	C	7010	8°6	5°5059	15°8646	44648	B	5248	8°9	3°4468	8°3746
43625	C	6903	9°3	0°9814	14°6820	44203	C	7013	9°5	7°1127	24°7753	44706	C	7100	7°3	5°1700	13°6930
43535	B	5110	8°0	1°4490	6°0613	44007	B	5192	8°8	7°5758	0°7546	44808	C	7105	8°1	7°8578	22°8872
43509	B	5112	8°0	2°1223	1°7283	44073	B	5194	9°3	8°5998	7°9810	44817	C	7107	9°4	8°1295	23°9202
43588	C	6907	7°4	3°2431	11°8111	44008	B	5195	7°3	8°7454	0°9994	44792	C	7108	9°0	8°1303	20°6215
43662	C	6915	8°5	7°0727	20°0887	44155	C	7016	9°5	8°8807	18°6113	44794	C	7110	9°5	10°4074	20°8946
43539	B	5121	8°9	7°9419	5°4522	44205	C	7018	8°6	9°7054	24°7899	44664	B	5258	8°7	10°9476	8°3430
43648	C	6918	9°5	8°1204	17°3872	44092	C	7022	6°7	11°8548	10°4942	44720	C	7117	8°5	14°6723	14°4806
43600	C	6920	8°3	8°4028	13°3268	44157	C	7024	8°2	12°3708	18°8839	44820	C	7118	9°4	15°0357	23°6373
43582	C	6925	9°3	11°3254	10°4242	44131	C	7029	8°5	14°3693	15°5349	44690	C	7124	9°1	18°6449	10°3289
43522	B	5130	8°7	15°3109	2°8034	44185	C	7032	7°5	15°7353	21°7000	44788	C	7126	9°4	20°5444	19°5349
43575	C	6936	9°4	15°4424	9°7523	44126	C	7033	9°3	15°9593	14°7110	44832	C	7129	6°8	22°0994	25°1791
43570	B	5131	9°0	16°3662	8°5674	44120	C	7035	7°5	16°5198	13°9031	44679	C	7128	9°3	22°1902	9°9359
43657	C	6938	9°5	16°4680	18°9429	44076	B	5206	7°4	19°5217	7°8368	44714	C	7134	9°0	23°6954	13°6975
43606	C	6940	7°5	16°5591	12°6003	44146	C	7039	7°0	19°6061	18°3851	44701	C	7135	9°4	24°4751	12°1866
43607	C	6942	9°0	18°0536	12°4873							44789	C	7136	9°1	24°9593	20°1216
43642	C	6944	8°9	19°7704	16°8420												
43585	C	6945	8°9	20°1042	11°0772												
43652	C	6947	8°7	20°7508	18°1325												
43629	C	6951	9°4	21°3662	14°9209												
43631	C	6956	8°4	24°6480	15°2734												
43508	B	5146	8°9	25°3367	0°2989												
43632	C	6958	8°2	25°6328	14°6034												
Plate 2738. R.A. 15 ^h 0 ^m					Plate 2740. R.A. 15 ^h 16 ^m					Plate 2739. R.A. 15 ^h 8 ^m							
44316	B	5215	9°0	4°4448	3°9599	44967	C	7128	9°3	0°3915	9°9609	44988	C	7135	9°4	2°7095	12°1777
44461	C	7047	9°4	5°0415	19°1534	45118	C	7129	6°8	0°5256	25°2049	45079	C	7136	9°1	3°3106	20°1045
44431	C	7049	8°9	6°3976	16°3022	45009	C	7134	9°0	1°9513	13°7002	45081	C	7140	8°3	4°4908	19°9091
44451	C	7050	4°8	6°8437	17°8574	44904	B	5285	8°9	12°0099	0°8814	45059	C	7149	9°5	7°5984	17°3569
44380	C	7052	8°6	7°1654	10°1061	44905	B	5286	9°5	12°2996	0°9067	45083	C	7153	8°0	9°3664	19°7065
44432	C	7056	8°3	9°0197	16°2971	44993	C	7164	9°3	13°5441	12°2161	45043	C	7154	8°3	9°5126	16°4859
44347	B	5220	8°4	9°2171	5°5851	45014	C	7167	9°0	14°9755	13°5343	45126	C	7155	8°0	9°6702	25°7173
44514	C	7060	9°1	10°5567	22°8303	45047	C	7168	6°0	15°1550	16°8247	45092	C	7157	9°4	10°7393	20°3843
						45116	C	7169	8°1	15°3385	24°1719	44904	B	5285	8°9	12°0099	0°8814

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R.A. 15 ^h 16 ^m (continued)										R.A. 15 ^h 32 ^m (continued)										R.A. 15 ^h 48 ^m (continued)									
44974	C	7172	7°0	16°36'38	9°43'67	45494	C	7260	9°5	10°48'31	11°35'24	46001	B	5424	7°7	5°73'04	0°72'85												
45105	C	7175	9°5	16°9'267	22°11'32	45513	C	7262	8°8	11°42'72	12°70'15	46190	C	7353	8°2	5°77'86	22°19'11												
45086	C	7178	7°7	18°17'86	20°23'32	45446	B	5362	9°0	12°12'12	7°47'11	46141	C	7354	9°4	5°87'30	16°85'55												
44975	C	7179	9°1	18°42'68	9°88'12	45586	C	7264	8°6	12°56'49	20°32'91	46206	C	7356	8°3	6°23'54	24°43'41												
45123	C	7181	7°3	18°72'45	24°79'44	45537	C	7265	9°0	12°60'69	15°44'60	46086	C	7361	8°3	8°06'75	11°41'80												
45033	C	7187	9°4	21°47'95	15°59'79	45515	C	7269	9°4	13°79'39	13°14'09	46148	C	7363	8°5	9°75'98	17°65'46												
45097	C	7189	8°0	22°62'95	20°71'36	45419	B	5364	8°4	13°97'26	3°13'83	46161	C	7365	9°0	10°18'76	18°85'52												
45069	C	7190	8°0	22°94'36	18°08'52	45550	C	7272	9°2	14°66'28	17°26'60	46149	C	7366	9°0	10°37'80	18°35'28												
44938	B	5304	9°0	23°14'09	5°67'94	45474	B	5368	9°1	16°66'68	8°67'61	46172	C	7367	7°8	10°99'29	20°26'06												
44939	B	5305	8°6	23°71'21	5°80'77	45571	C	7275	9°5	17°14'70	19°04'74	46163	C	7376	9°2	13°64'10	18°75'66												
...	C	7192	9°5	25°9'830	16°17'88	45634	C	7276	8°3	17°44'34	24°57'74	46020	B	5442	9°3	17°24'75	3°96'47												
						45575	C	7277	9°2	17°93'90	18°94'08	46128	C	7388	9°1	18°38'49	14°76'00												
						45576	C	7278	8°8	18°05'35	18°72'09	46175	C	7391	9°0	20°09'45	19°92'00												
						45508	C	7279	8°9	18°12'33	11°62'02	46101	C	7392	8°8	20°37'07	11°76'54												
						45500	C	7280	7°4	18°40'15	11°20'55	46213	C	7393	9°5	21°03'23	25°26'68												
						45644	C	7281	8°0	20°53'30	25°88'30	46040	B	5450	9°1	22°35'10	6°48'45												
						45600	C	7284	9°4	21°94'28	21°16'75	46076	B	5457	8°7	24°31'27	8°70'20												
												46166	C	7399	8°3	24°37'08	18°63'04												
												46106	C	7400	9°5	25°90'87	12°100'6												
Plate 426. R.A. 15 ^h 24 ^m										Plate 2742. R.A. 15 ^h 40 ^m										Plate 431. R.A. 15 ^h 56 ^m									
45303	C	7189	8°0	0°98'98	20°73'15	45883	C	7284	9°4	0°30'96	21°19'59	46331	B	5450	9°1	0°50'13	6°50'73												
45293	C	7190	8°0	1°26'50	18°09'87	45844	C	7290	9°4	4°81'35	17°26'87	46345	B	5457	8°7	2°49'47	8°69'60												
45227	B	5304	9°0	1°27'93	5°69'09	45902	C	7291	9°0	4°91'93	23°01'77	46405	C	7399	8°3	2°70'02	18°62'25												
45228	B	5305	8°6	1°85'25	5°81'09	45922	C	7293	8°5	6°03'05	25°61'78	46405	C	7399	8°3	2°70'02	18°62'25												
45286	C	7192	9°5	4°27'58	16°14'71	45845	C	7295	9°0	6°13'51	17°21'43	46365	C	7400	9°5	4°14'15	12°07'07												
45280	C	7193	7°3	4°60'40	15°08'97	45826	C	7302	8°6	9°10'42	14°90'88	46305	B	5461	8°6	4°39'83	1°59'58												
45274	C	7198	9°1	7°00'03	14°27'81	45906	C	7304	8°9	9°41'33	22°45'48	46412	C	7401	9°0	4°49'58	19°53'35												
...	B	5316	8°8	8°48'58	0°08'14	45808	C	7308	9°0	11°14'38	12°59'34	46366	C	7402	8°5	5°06'72	11°83'75												
45287	C	7202	9°3	8°65'18	16°18'82	45852	C	7313	8°0	12°01'44	16°34'93	46346	B	5467	8°0	6°46'11	9°08'45												
45224	B	5318	8°9	9°59'29	4°18'46	45778	C	7314	7°3	12°52'38	10°31'14	46443	C	7407	9°2	6°84'76	25°55'69												
45295	C	7207	6°0	11°22'52	18°39'81	45810	C	7315	8°7	12°88'04	13°11'57	46382	C	7409	8°7	7°10'68	14°41'31												
45203	B	5321	8°8	12°08'09	1°04'64	45864	C	7319	9°3	13°69'30	17°50'35	46435	C	7419	8°1	9°06'75	23°31'45												
45288	C	7209	9°4	12°34'16	16°10'98	45823	C	7321	9°3	14°46'96	13°47'60	46407	C	7421	9°0	9°29'77	18°95'32												
45282	C	7211	9°5	12°80'41	15°52'00	45813	C	7323	7°5	14°87'34	13°28'02	46369	C	7423	8°2	9°54'52	11°87'83												
45206	B	5325	7°3	13°00'46	1°36'47	45838	C	7324	9°5	14°93'23	16°10'82	46396	C	7424	9°0	9°74'26	16°86'30												
45283	C	7212	9°5	13°20'22	15°50'97	45764	B	5404	8°7	15°15'96	9°07'38	46383	C	7426	9°1	9°77'53	14°86'65												
45322	C	7214	8°1	13°59'57	24°65'74	45702	B	5408	8°8	16°44'29	0°76'59	46392	C	7427	9°0	9°83'15	15°09'51												
45253	C	7218	9°5	14°61'26	10°64'98	45791	C	7328	9°2	16°64'31	10°38'08	46377	C	7431	9°2	10°57'72	13°44'99												
45307	C	7219	8°3	14°64'60	20°97'23	45735	B	5409	8°9	16°64'37	5°88'79	46429	C	7432	8°0	11°05'88	21°61'80												
45214	B	5334	7°6	17°28'29	2°93'52	45793	C	7331	9°1	18°28'04	10°68'26	46357	C	7434	9°4	12°27'45	10°27'82												
45320	C	7221	7°4	17°58'21	23°22'48	45867	C	7333	8°5	20°03'46	17°74'24	46342	B	5482	8°6	12°30'15	7°86'27												
45215	B	5336	7°6	18°01'85	2°20'60	45801	C	7337	9°4	21°43'31	11°36'42	46358	C	7435	9°5	12°85'06	10°19'77												
45312	C	7225	8°5	18°50'52	21°28'13	45817	C	7341	9°5	22°42'74	12°69'81	46422	C	7438	9°1	14°31'15	21°01'37												
45254	C	7231	9°2	20°56'40	10°52'23	45927	C	7345	9°0	23°51'13	25°88'39	46353	C	7441	8°7	15°16'08	9°83'09												
45323	C	7235	9°3	21°34'24	24°47'85	45912	C	7347	9°1	24°45'43	22°90'53	46359	C	7442	9°2	15°17'09	10°33'06												
45241	B	5342	9°0	23°20'74	6°11'55							46446	C	7458	9°1	19°98'39	25°98'98												
45220	B	5346	8°5	24°63'68	3°66'68							46362	C	7463	9°3	22°13'57	10°23'57												

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Plate 2743. R.A. 16 ^h 4 ^m						Plate 428. R.A. 16 ^h 20 ^m						R.A. 16 ^h 28 ^m (continued)					
46588	C	7463	9.3	0.3413	10.2615	47220	B	5568	9.1	0.9659	4.4055	47553	C	7709	7.7	18.2449	21.2432
46558	B	5502	9.0	0.4808	6.8230	47264	C	7593	9.1	2.2080	11.1521	47467	C	7710	8.8	19.4570	11.1813
46723	C	7465	9.2	0.6931	20.5823	47265	C	7595	9.3	2.4762	11.2120	47458	C	7712	9.3	20.2715	10.9200
46567	B	5504	8.8	1.0064	7.5411	47300	C	7599	8.6	3.9917	15.5421	47511	C	7713	9.2	20.5161	16.7711
46578	B	5505	9.1	1.2403	8.6805	47367	C	7602	9.4	5.3076	25.6412	47440	B	5657	7.9	22.4821	7.4056
46692	C	7468	7.5	2.0018	19.1130	47368	C	7606	9.5	5.6645	25.3963	47555	C	7720	9.0	23.5364	21.7008
46696	C	7471	9.0	3.8197	19.1450	47273	C	7612	8.6	7.8208	12.7361	47535	C	7726	9.5	25.3134	19.7994
46697	C	7472	9.0	3.8297	19.2363	47301	C	7614	9.0	8.9430	15.5113						
46713	C	7480	9.0	5.9751	19.6790	47340	C	7619	9.2	10.3338	20.8311						
46630	C	7482	9.2	6.5855	14.0609	47216	B	5589	9.1	10.7681	3.2579						
46580	B	5523	8.5	9.7105	9.3242	47266	C	7621	9.2	10.8304	11.5649						
46649	C	7486	8.3	10.9588	15.1221	47267	C	7624	9.3	11.5080	11.4900						
46650	C	7492	9.5	12.2442	14.9515	47258	C	7627	9.3	12.7463	10.9777						
46774	C	7495	9.2	14.2647	25.0870	47323	C	7630	9.2	13.1088	18.4254	Plate 434. R.A. 16 ^h 36 ^m					
46652	C	7496	8.5	14.8459	15.3414	47224	B	5598	9.1	13.2884	5.0837	47638	B	5657	7.9	0.6460	7.4268
46782	C	7509	9.0	17.8546	25.5897	47225	B	5602	7.5	15.4631	4.4232	47729	C	7720	9.0	1.9112	21.7050
46744	C	7511	7.1	18.2161	21.9958	47218	B	5603	9.0	15.6063	3.8553	47712	C	7726	9.5	3.6599	19.7771
46626	C	7512	9.5	18.2812	12.8608	47269	C	7639	9.5	15.9964	11.8163	47607	B	5667	9.0	7.9266	1.5156
46745	C	7514	9.5	19.3037	21.5071	47324	C	7642	7.9	16.7799	18.4121	47721	C	7740	8.7	8.0176	20.5132
46665	C	7525	8.5	21.6511	15.7406	47261	C	7643	8.4	16.9480	10.4270	47642	B	5674	8.6	9.8047	7.9150
46612	C	7526	9.2	21.7783	11.8322	47309	C	7645	9.3	17.7380	16.1711	47665	C	7744	7.4	10.1241	11.7615
46510	B	5538	8.8	21.7932	1.9614	47319	C	7648	8.7	18.0715	17.4259	47651	B	5679	9.0	10.4117	8.4221
46740	C	7528	8.8	21.8075	21.1784	47364	C	7650	9.2	18.8593	24.0250	47666	C	7745	9.5	10.4733	11.7461
46614	C	7532	9.5	22.6868	11.7067	47236	B	5607	8.5	20.4811	6.5321	47730	C	7751	9.3	10.9163	21.5217
46710	C	7533	9.0	22.9946	18.9524	47286	C	7656	9.5	21.1005	13.5096	47733	C	7755	9.5	12.1003	22.2331
46749	C	7538	9.3	25.0761	22.0947	47325	C	7658	9.0	21.8528	18.3633	47731	C	7756	8.2	12.7058	21.7632
						47312	C	7660	9.1	22.9376	16.8227	47676	C	7762	6.0	15.3459	13.6235
						47328	C	7661	7.9	23.2857	18.0543	47742	C	7763	9.3	15.6338	25.0454
						47207	B	5616	8.5	23.3634	1.7337	47743	C	7765	9.4	15.8147	25.4300
						47263	C	7664	9.3	23.8396	10.7206	47617	B	5694	9.0	16.5906	3.9224
						47346	C	7665	8.6	24.3217	21.8980	47719	C	7770	9.2	17.1490	19.6332
						47287	C	7668	9.2	25.0370	14.0284	47724	C	7774	8.9	18.5707	20.4139
						47298	C	7670	9.0	25.7441	14.0872	47725	C	7776	8.8	18.7181	20.4340
												47746	C	7779	7.1	20.5948	25.5518
												47700	C	7785	8.2	21.6967	16.9717
												47605	B	5715	9.0	24.7931	0.8684
Plate 1548. R.A. 16 ^h 12 ^m						Plate 2788. R.A. 16 ^h 28 ^m						Plate 1421. R.A. 16 ^h 44 ^m					
...	C	7526	9.2	0.0075	11.8633	...	C	7658	9.0	0.1783	18.3930	47801	B	5715	9.0	2.8603	0.8565
...	C	7528	8.8	0.1745	21.2088	47502	C	7660	9.1	1.2405	16.8363	47907	C	7797	9.0	5.2006	17.4956
46946	C	7532	9.5	0.9142	11.7242	47408	B	5616	8.5	1.4436	1.7422	47865	C	7799	8.1	5.2747	10.2211
47035	C	7533	9.0	1.3287	18.9650	47514	C	7661	7.9	1.6066	18.0624	47888	C	7801	9.3	6.2718	13.1215
47075	C	7538	9.3	3.4564	22.0755	47451	C	7664	9.3	2.0524	10.7213	47959	C	7803	8.9	6.3962	24.7953
47038	C	7546	9.3	5.6932	18.9606	47545	C	7665	8.6	2.6993	21.8903	47891	C	7805	9.0	7.2484	14.2779
46936	C	7554	8.9	10.0351	10.3390	47478	C	7668	9.2	3.2984	14.0110	47868	C	7808	8.8	7.8835	10.7094
46855	B	5553	8.8	11.8884	4.5106	47479	C	7670	9.0	4.0062	14.0596	47911	C	7812	9.2	8.7539	17.3875
47122	C	7556	8.1	11.9013	24.7015	47415	B	5620	8.7	4.2140	2.7249	47925	C	7813	9.4	9.3366	18.2360
46890	B	5555	8.9	12.3718	7.2990	47471	C	7672	9.2	4.5918	13.0167	47960	C	7816	9.5	9.6205	24.6368
47053	C	7558	8.4	12.7460	19.5742	47409	B	5623	8.6	7.4966	1.9430	47953	C	7817	9.5	9.7387	23.2084
47091	C	7560	8.6	13.4222	22.9745	47420	B	5628	8.6	9.6700	3.4067	47961	C	7819	9.5	10.2879	24.7636
47137	C	7578	9.4	19.7606	25.9993	47574	C	7685	7.9	11.0884	25.6956	47948	C	7827	8.4	11.5951	22.8060
46827	B	5565	8.4	19.7910	1.5569	47539	C	7687	8.8	11.2032	20.4074	47940	C	7831	7.8	12.9162	21.6721
47070	C	7579	9.4	19.8265	20.8996	47463	C	7693	9.0	12.5255	11.4278	47832	B	5740	8.8	14.0956	4.5849
47083	C	7582	9.4	20.5762	21.6005	47484	C	7694	7.7	13.4629	13.7474	47927	C	7834	9.1	14.3447	18.2770
46954	C	7587	9.4	21.4699	12.0675	47465	C	7695	9.0	13.6941	11.3851	47843	B	5741	8.7	15.0299	6.2541
46861	B	5568	9.1	22.8466	4.3898	47416	B	5638	8.5	13.7600	2.3627	47928	C	7836	9.4	15.6494	18.6578
46943	C	7593	9.1	23.9889	11.1537	47457	C	7701	9.4	15.7331	10.2538						
46944	C	7595	9.3	24.2562	11.2173	47566	C	7703	7.8	16.2208	23.8322						
47009	C	7599	8.6	25.7078	15.5695	47485	C	7704	8.4	16.8522	14.1127						
						47534	C	7706	8.8	17.3347	19.8537						
						47476	C	7707	9.0	17.5662	12.6744						

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			ξ.	η.				ξ.	η.				ξ.	η.			
R.A. 16 ^h 44 ^m (continued)					R.A. 17 ^h 0 ^m (continued)					R.A. 17 ^h 8 ^m (continued)							
47934	C	7837	9.2	15.9239	19.5231	48885	C	7948	8.5	4.9491	14.3872	49586	C	8092	9.2	22.6085	13.7771
47939	C	7839	8.8	16.8473	21.1361	49045	C	7955	8.4	6.3356	22.3464	49879	C	8093	9.0	22.9879	24.3622
47967	C	7848	9.2	18.4835	25.5261	48702	B	5811	8.3	6.7427	7.1067	49697	C	8095	9.4	23.6802	17.5966
47930	C	7853	8.9	19.7835	18.6900	48601	B	5812	8.5	6.9388	0.4176	49815	C	8096	9.0	23.7181	21.1999
47853	B	5746	8.7	21.5037	8.1590	48889	C	7956	7.5	7.3637	15.1846	49771	C	8100	9.0	24.9362	19.5159
47833	B	5747	9.0	21.6674	4.2757	49003	C	7959	6.0	8.1649	20.7602						
47870	C	7858	9.1	22.4289	11.1082	49067	C	7961	9.2	8.3326	23.2871						
47871	C	7861	5.3	22.8250	10.9268	49046	C	7963	9.2	8.6641	22.7856						
47936	C	7862	7.0	22.9397	19.8581	48602	B	5819	8.9	8.9264	1.0699						
47861	B	5757	8.4	25.5264	8.8761	48865	C	7966	8.6	9.4133	14.1303						
						49047	C	7969	8.5	9.8693	22.4220						
						48984	C	7970	8.6	10.0055	19.1982						
						48846	C	7973	8.7	10.3828	12.8796						
						48645	B	5828	8.9	12.2532	4.0384						
						49072	C	7984	9.5	14.1235	24.0714						
						48665	B	5837	9.0	15.2090	4.2968						
						49059	C	7996	9.0	16.3415	22.3618						
						49036	C	7997	8.7	16.3527	21.4093						
						48871	C	7998	9.2	17.0257	13.7212						
						49010	C	8001	8.1	17.3587	20.7126						
						48991	C	8010	9.0	19.2042	19.1545						
						48635	B	5850	7.3	19.6251	2.2785						
						48975	C	8020	9.5	21.0436	18.6888						
						48875	C	8022	8.7	21.4909	13.4621						
						49083	C	8023	9.4	21.5559	23.4987						
						48826	C	8024	9.4	22.5228	11.8903						
						48783	B	5859	8.2	22.8971	9.5737						
						48977	C	8030	9.3	23.2878	19.1105						
						48832	C	8033	9.5	24.7289	11.5302						
						48766	B	5863	6.6	25.0712	8.4510						

Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.						
+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.				
			ξ.	η.				ξ.	η.				ξ.	η.			
R.A. 17 ^h 24 ^m (continued)					R.A. 17 ^h 32 ^m (continued)					R.A. 17 ^h 40 ^m (continued)							
50755	B	5964	9.1	6.9339	5.1395	51416	C	8303	9.0	13.0634	25.2864	51665	C	8420	8.9	20.1464	11.7315
50874	C	8190	9.4	7.1444	15.5678	51386	C	8306	9.1	13.5471	22.3340	51578	B	6129	8.4	20.6530	5.4920
50849	C	8192	8.8	7.7580	14.0951	51109	B	6041	7.9	13.8350	0.4518	51766	C	8428	9.1	21.4604	19.6163
50741	B	5967	8.2	7.7935	3.6644	51350	C	8309	7.5	13.9504	21.1467	51562	B	6132	7.8	22.0218	4.4031
50850	B	5968	9.4	7.8276	13.8984	51352	C	8310	9.0	14.0520	20.2549	51723	C	8429	9.5	22.1150	16.3519
50742	B	5970	8.3	7.9307	3.1120	51191	B	6044	8.0	15.3615	8.1155	51666	C	8434	8.7	22.9830	11.6589
50757	B	5972	8.2	8.0722	5.6187	51162	B	6046	8.6	15.6265	5.8300	51752	C	8436	8.9	23.3379	18.6033
50876	C	8200	9.5	11.2374	15.4523	51299	C	8323	9.2	16.6254	17.5299	51753	C	8445	9.1	24.3161	18.2882
50853	C	8202	9.3	11.5318	13.9620	51119	B	6052	8.8	16.6670	1.4330	51736	C	8448	9.5	25.1144	17.6719
50735	B	5989	8.5	13.3089	2.8203	51163	B	6054	6.0	16.8141	5.4345	51689	C	8449	9.3	25.2585	13.8718
50723	B	5996	9.0	16.6090	1.2317	51301	C	8324	9.3	17.1666	17.5270	51790	C	8451	5.7	25.8883	20.9346
50854	C	8232	9.5	16.9789	13.6177	51354	C	8325	9.5	17.2247	20.4462						
50806	B	5999	8.9	17.1358	9.8270	51195	B	6060	9.1	18.8546	7.6914	Plate 2840. R.A. 17 ^h 48 ^m					
50855	C	8234	8.8	17.1515	13.4572	51334	C	8329	8.2	19.4098	19.9131	52000	B	6132	7.8	0.1413	4.4313
50839	C	8235	8.9	17.1628	12.1786	51302	C	8332	9.0	20.4697	17.3789	52446	C	8429	9.5	0.4109	16.3777
50864	C	8240	8.7	18.0632	14.7047	51390	C	8334	9.4	21.1610	22.7459	52251	C	8434	8.7	1.2096	11.6722
50841	C	8242	9.5	19.2320	12.4701	51303	C	8339	8.5	21.7721	17.4372	52529	C	8436	8.9	1.6669	18.6108
51012	C	8245	9.0	19.5714	25.5179	51305	C	8343	9.0	22.4976	17.7461	52498	C	8445	9.1	2.6405	18.2811
50736	B	6006	8.0	19.9303	2.4309	51246	C	8344	8.7	22.6253	13.5644	52499	C	8448	9.5	3.4295	17.6529
50831	C	8248	9.1	21.1191	11.5432	51182	B	6075	7.7	22.7441	6.6606	52321	C	8449	9.3	3.5175	13.8513
50707	B	6011	8.9	21.2539	0.7347	51369	C	8347	9.5	23.5492	22.1871	52610	C	8451	5.7	4.2513	20.9033
50944	C	8249	9.2	21.2714	20.5568	51262	C	8349	8.7	24.1820	14.6686	52259	C	8453	9.2	4.6193	11.4757
50822	C	8250	9.3	21.5754	11.1651	51306	C	8352	8.7	25.4008	17.9520	52260	C	8455	9.3	5.2251	11.8484
50893	C	8254	9.4	23.0442	16.6524	51400	C	8353	9.5	25.5669	23.8103	52209	C	8456	9.4	5.2538	10.9169
50894	C	8255	9.4	23.1150	16.7399							51970	B	6147	8.1	5.3380	3.5003
50843	C	8257	9.1	23.3604	12.3657	Plate 1450. R.A. 17 ^h 40 ^m					52644	C	8457	9.2	6.0832	22.2094	
50948	C	8261	9.2	23.9416	20.4732	...	C	8339	8.5	0.0840	17.4682	52073	B	6157	7.2	7.2977	6.9776
50858	C	8263	9.4	24.4700	13.9614	51726	C	8343	9.0	0.8141	17.7662	52456	C	8460	7.0	8.0594	16.8404
50708	B	6018	8.7	24.8409	0.3201	51676	C	8344	8.7	0.8800	13.5830	52372	C	8461	8.9	8.4117	14.3161
50987	C	8265	8.2	24.9538	22.6256	51581	B	6075	7.7	0.8970	6.6778	52184	B	6164	8.5	11.4931	9.4254
50751	B	6019	9.3	25.0880	5.1115	51807	C	8347	9.5	1.9310	22.1910	52378	C	8482	8.9	11.8832	14.4591
50950	C	8266	8.8	25.1607	20.6380	51692	C	8349	8.7	2.4529	14.6639	52012	B	6170	7.1	12.7977	4.9493
						51728	C	8352	8.7	3.7200	17.9287	52337	C	8492	7.8	13.8595	13.1975
						51820	C	8353	9.5	3.9724	23.7833	52229	C	8493	9.1	13.9093	11.0836
						51595	B	6082	6.2	4.7706	7.7702	52620	C	8496	8.5	14.3958	20.5539
						51829	C	8357	9.0	4.8986	24.9591	52341	C	8506	8.0	16.3639	13.1738
						51597	B	6083	8.9	4.9434	7.2554	52237	B	6185	7.8	17.1006	10.5703
						51707	C	8359	9.0	5.1885	15.3819	52784	C	8512	9.0	17.1221	25.9772
						51615	B	6087	7.3	6.4907	8.4897	52022	B	6192	8.4	19.7147	4.4856
						51742	C	8373	8.3	7.8042	18.6907	52549	C	8520	8.9	19.7191	18.4557
						51585	B	6099	8.8	8.1812	6.9176	52348	C	8525	8.6	20.3378	13.8313
						51618	B	6100	5.9	8.5637	8.3836	52628	C	8526	8.6	20.6372	20.9663
						51846	C	8376	9.0	8.6767	25.3823	51995	B	6197	8.6	21.2617	4.0070
						51821	C	8377	7.8	8.7764	23.1786	52696	C	8529	8.9	21.3806	22.3608
						51744	C	8381	9.3	9.4849	18.8813	52488	C	8530	8.0	22.1017	16.1657
						51567	B	6101	8.6	10.2684	5.6559	52793	C	8531	5.7	22.1224	25.8207
						51650	C	8387	8.2	10.5179	10.9958	52632	C	8532	9.2	22.1957	20.4267
						51568	B	6107	5.4	10.9731	5.4490	52489	C	8533	9.0	22.5195	16.4611
						51530	B	6111	8.8	12.3642	2.4573	52398	C	8534	7.8	22.5746	14.8053
						51634	B	6112	9.0	12.4056	9.8704	52097	B	6201	8.6	22.8119	6.7992
						51635	B	6113	9.3	12.4736	9.7608	52491	C	8535	9.1	22.9948	16.2505
						51682	C	8399	8.7	14.7761	13.5733	52401	C	8537	9.1	23.8799	14.6742
						51701	C	8405	9.0	16.3043	15.0860	52357	C	8538	8.4	23.9150	13.1073
						51651	C	8406	9.1	16.4483	11.1563	52737	C	8541	9.5	25.2723	23.8932
						51638	B	6119	8.8	16.4562	10.1137	52561	C	8543	9.3	25.5925	18.8858
						51751	C	8415	8.9	19.1631	18.9433	52028	B	6208	9.0	25.6441	4.6199
						51818	C	8422	7.0	20.1110	22.4727	52606	C	8544	9.0	25.9884	19.9099
						51711	C	8421	9.0	20.1441	16.1279						

Oxford No.					Cambridge or Berlin A. G. C.					Oxford No.					Cambridge or Berlin A. G. C.					Oxford No.					Cambridge or Berlin A. G. C.				
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Plate 1424. R.A. 17 ^h 56 ^m										R.A. 18 ^h 4 ^m (continued)										R.A. 18 ^h 12 ^m (continued)									
52981	C	8530	8.0	0.3949	16.1918	53660	C	8642	8.9	2.4135	17.1245	54250	B	6370	9.0	9.6070	9.7454												
53030	C	8532	9.2	0.5518	20.4511	53585	C	8643	9.2	2.5302	14.5873	54360	C	8757	9.0	9.8997	12.2359												
53087	C	8531	5.7	0.5580	25.8460	...	B	6283	5.8	3.4974	0.2826	54762	C	8760	9.5	10.3492	25.3433												
52982	C	8533	9.1	0.8170	16.4809	53662	C	8646	9.0	3.6866	17.0851	54745	C	8763	9.5	10.8381	24.7077												
52956	C	8534	7.8	0.8477	14.8243	53459	B	6285	8.9	3.8510	10.7241	54490	C	8768	9.1	11.7747	16.8018												
52860	B	6201	8.6	0.9669	6.8151	...	B	6290	8.6	5.0985	0.3189	54491	C	8769	9.4	11.8068	16.3132												
52983	C	8535	9.1	1.2893	16.2633	53889	C	8652	9.0	5.3201	23.3835	54763	C	8771	9.3	11.8300	25.5646												
52958	C	8537	9.1	2.1509	14.6740	53432	B	6296	9.0	6.5459	10.1802	54006	B	6376	8.6	11.9860	0.5512												
52948	C	8538	8.4	2.1629	13.1068	53759	C	8655	8.5	7.3792	19.8250	54007	B	6377	9.1	12.0481	0.5096												
53065	C	8541	9.5	3.6792	23.8707	53795	C	8656	8.2	7.3949	21.0970	54666	C	8773	8.3	12.2335	22.1270												
52840	B	6208	9.0	3.7665	4.5954	53108	B	6301	8.2	7.5398	0.9024	54766	C	8774	9.5	12.3593	25.4825												
53009	C	8543	9.3	3.9253	18.8593	53288	B	6302	7.0	8.0088	5.8504	54367	C	8787	9.3	16.1712	12.7563												
53022	C	8544	9.0	4.3363	19.8773	53671	C	8659	8.6	8.4608	17.0198	54368	C	8789	9.3	16.8372	12.7123												
53066	C	8545	9.0	4.3781	23.5979	53258	B	6305	7.7	9.5108	4.5978	54774	C	8791	9.3	16.8888	25.2253												
52968	C	8546	8.5	4.4180	15.7111	53533	C	8665	9.4	10.9308	12.6157	54775	C	8792	8.9	16.9876	25.6913												
52803	B	6214	7.0	5.0793	1.0814	53703	C	8667	9.0	11.3261	17.4050	54091	B	6395	9.1	17.5977	5.1305												
52817	B	6215	8.7	5.5287	2.5115	53263	B	6310	8.6	11.5934	5.3873	54504	C	8802	8.5	19.1091	16.4982												
52969	C	8554	9.0	5.5717	15.5435	53705	C	8670	9.4	11.8972	18.0442	54682	C	8803	9.5	19.4567	21.6707												
53010	C	8557	9.2	6.4646	18.3529	53957	C	8674	6.1	12.4484	25.9903	54141	B	6399	7.3	19.4814	5.8219												
53089	C	8560	9.2	6.8951	25.3224	53596	C	8682	8.0	13.1577	14.9290	54683	C	8804	9.3	19.6081	22.0550												
52874	B	6219	8.7	7.4441	7.6522	53192	B	6316	8.9	13.5794	2.9657	54537	C	8807	8.7	20.2085	17.8961												
52949	C	8572	8.5	9.1252	13.2278	53507	C	8686	7.3	15.1720	12.4046	54505	C	8808	9.2	20.7613	16.4031												
52934	C	8578	9.4	10.9412	12.2811	53642	C	8688	9.1	15.2749	15.5957	54095	B	6405	9.0	20.7934	4.1667												
52846	B	6230	8.4	11.7550	4.1460	53384	B	6324	8.1	15.2994	7.7229	54142	B	6406	5.6	21.3684	5.8736												
52950	B	6232	9.2	11.9905	13.1650	53194	B	6322	7.7	15.3049	2.6652	54757	C	8813	9.5	22.1132	24.2622												
52937	C	8585	8.9	12.4530	12.9984	53447	B	6327	8.6	15.6372	10.3223	54376	C	8814	9.1	22.5976	12.7301												
52914	B	6238	8.6	12.7186	10.7887	53537	C	8689	9.0	15.7849	12.6219	54691	C	8819	9.0	22.9650	22.0450												
53074	C	8590	8.8	14.5909	23.9381	53196	B	6329	8.2	16.1288	2.8081	54576	C	8822	8.2	23.9720	18.8855												
52926	C	8589	9.2	14.6348	11.9586	53308	B	6331	8.8	16.3880	6.4019	54101	B	6420	9.1	25.1084	4.1677												
52822	B	6246	8.4	15.2602	2.7156	53200	B	6335	8.5	17.9285	2.8009																		
53093	C	8593	9.1	15.3555	25.6440	53452	B	6337	8.5	18.8285	10.4013																		
52928	C	8600	9.2	15.9090	11.7889	53572	C	8696	8.5	18.9296	14.1622																		
52834	B	6255	7.1	16.7504	4.0221	53509	C	8697	9.2	19.0791	11.4988																		
52939	C	8603	8.0	17.0578	12.6166	53904	C	8701	9.0	19.5737	23.8038																		
53017	C	8604	7.2	17.0865	18.8946	53815	C	8703	9.5	19.7227	21.4219																		
52807	B	6258	8.5	17.1546	0.1860	53547	C	8711	8.4	21.6498	12.6370																		
53060	C	8609	9.0	18.2484	23.1734	53687	C	8712	8.3	21.8973	16.6135																		
52940	C	8610	8.8	18.3704	13.1577	53777	C	8713	7.2	22.4093	19.4806																		
53039	C	8614	8.8	19.0957	20.7162	53689	C	8717	8.5	23.0189	17.2976																		
53061	C	8615	9.0	19.1162	22.4895	53746	C	8726	9.1	24.2205	18.5519																		
52941	C	8617	8.3	19.5314	12.9321	53518	C	8730	9.3	24.9665	12.3354																		
52838	B	6276	8.9	21.1672	4.0334	53326	B	6349	7.5	25.0845	6.1594																		
52974	C	8625	8.8	21.2914	15.3345	53327	B	6351	8.6	25.6455	5.4766																		
53006	C	8627	8.3	21.5118	17.3617																								
53094	C	8629	8.4	21.5189	25.6120																								
53095	C	8636	9.2	23.0053	25.6897																								
52930	C	8635	8.6	23.0617	11.8934																								
52991	C	8639	9.3	23.4808	17.0438																								
52993	C	8642	8.9	24.1070	17.1284																								
52966	C	8643	9.2	24.2604	14.5933																								
52995	C	8646	9.0	25.3791	17.1081																								
52809	B	6283	5.8	25.4386	0.3034																								
52918	B	6285	8.9	25.6382	10.7496																								
Plate 1198. R.A. 18 ^h 4 ^m										Plate 2841. R.A. 18 ^h 12 ^m										Plate 2673. R.A. 18 ^h 20 ^m									
53486	C	8635	8.6	1.2918	11.9056	54480	C	8712	8.3	0.1970	16.6425	55509	C	8813	9.5	0.5258	24.2878												
53944	C	8636	9.2	1.4390	25.7017	54581	C	8713	7.2	0.7513	19.5017	55145	C	8814	9.1	0.8400	12.7490												
53658	C	8639	9.3	1.7869	17.0492	54510	C	8717	8.5	1.3287	17.3100	55450	C	8819	9.0	1.3449	22.0577												
						54551	C	8726	9.1	2.5489	18.5460	55351	C	8822	8.2	2.3052	18.8834												
						54346	C	8730	9.3	3.2029	12.3195	54872	B	6420	9.1	3.2244	4.1509												
						54105	B	6349	7.5	3.2297	6.1427	54875	B	6425	8.7	5.4448	4.1269												
						54107	B	6351	8.6	3.7805	5.4518	54803	B	6426	8.9	5.4546	0.6699												
						54619	C	8732	8.0	4.4165	20.4879	55153	C	8838	7.5	5.8663	13.1316												
						54452	C	8734	8.1	4.9304	16.1721	55535	C	8839	9.0	6.1980	25.1043												
						54277	B	6357	8.9	5.1189	10.5539	...	B	6435	8.7	7.6051	7.1472												
						54584	C	8744	8.3	6.6850	19.7124	55043	B	6437	8.5	8.1988	8.9587												
						54486	C	8752	9.0	7.8678	16.4782	55298	C	8851	9.3	9.5938	16.6097												
						54037	B	6365	8.6	8.5040	2.3161	55538	C	8852	9.5	9.5984	24.9706												
												55049	B	6444	8.9	10.5404	9.0089												
												55102	B	6445	8.7	10.5767	10.6100												
												55104	B	6446	8.7	10.8631	10.9286												
												54950	B	6448	8.3	11.1981	5.4275												
												55541	C	8858	8.7	11.2351	24.3398												
												55367	C	8862	8.7	11.6756	19.1745												
												54856	B	6450	8.5	11.6837	2.8531												
												55305	C	8867	9.2	12.6886	17.0583												
												55371	C	8876	8.9	14.1579	18.5899												
												55397	C	8878	9.1	15.2234	19.4336												
												55398	C	8885	9.1	16.3231	19.7580												
												55200	C	8886	9.4	16.4510	14.0690												
												55574	C	8887	8.1	16.5226	25.3405												
												55552	C	8889	8.0	16.8618	24.3390												

Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.						
+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.				
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R.A. 18 ^h 20 ^m (continued)					R.A. 18 ^h 28 ^m (continued)					R.A. 18 ^h 36 ^m (continued)							
55553	C	8890	9°0	17°0324	25°2342	56454	C	9015	9°0	14°7273	24°2397	56777	B	6631	9°0	24°2708	4°3484
55164	C	8893	9°3	17°4559	12°9987	55648	B	6530	8°2	14°8341	1°7978	57063	C	9185	9°3	24°3583	12°0443
55557	C	8899	9°2	18°5362	24°6491	55859	B	6531	8°1	14°8662	8°2504	56946	B	6634	9°1	25°2011	8°3062
55520	C	8905	8°9	18°9850	23°5154	56270	C	9018	9°1	15°1743	19°0651	57611	C	9191	9°5	25°5712	23°3104
55238	C	8904	9°0	19°0243	15°0244	56042	C	9024	9°3	17°4800	13°2611	57030	B	6637	8°9	25°9117	10°4123
55111	B	6471	9°1	19°1744	11°1611	56459	C	9026	9°0	17°4955	24°6285						
55112	B	6472	9°2	19°3134	11°1343	56499	C	9028	9°1	18°0587	25°1786						
55405	C	8907	9°5	19°3255	20°2051	56121	C	9030	9°0	18°7181	14°9651						
54916	B	6473	8°1	19°7203	4°7451	56242	C	9035	9°3	19°7716	18°3376						
55523	C	8914	8°9	20°2426	23°9871	55875	B	6552	8°6	21°5832	7°8591						
54962	B	6476	9°1	20°5404	6°2279	56171	C	9049	8°2	22°9907	16°4626						
55171	C	8917	9°2	20°6283	12°3057	56438	C	9052	9°0	23°4324	23°0185						
...	C	8919	9°5	20°8461	21°0995	56338	C	9053	8°5	23°5440	20°5216						
55497	C	8920	8°6	20°9543	22°7468	55958	B	6561	9°1	23°7560	10°4158						
55498	C	8921	9°0	21°0556	23°1574	56533	C	9056	9°0	24°8896	26°0223						
55499	C	8922	9°0	21°1977	22°5385												
55143	C	8926	9°0	22°2244	11°9407												
54926	{ B	6481	9°2	22°4439	4°8247												
	{ B	6482	9°3	22°4458	4°8243												
55211	C	8931	9°1	22°5426	14°0116												
55059	B	6483	6°8	22°9769	8°6479												
55414	C	8934	8°6	22°9815	19°4151												
54821	B	6485	8°8	23°2759	0°3796												
Plate 1199. R.A. 18 ^h 28 ^m					Plate 2674. R.A. 18 ^h 36 ^m					Plate 1200. R.A. 18 ^h 44 ^m							
55985	C	8926	9°0	0°4553	11°9651	57237	C	9049	8°2	1°2882	16°4754	57996	C	9173	9°3	0°0637	13°1396
55742	{ B	6481	9°2	0°5698	4°8463	57522	C	9052	9°0	1°8266	23°0242	58057	C	9176	9°0	0°5964	13°5870
56055	{ B	6482	9°3	0°5716	4°8459	57417	C	9053	8°5	1°9014	20°5258	58322	C	9196	9°4	4°8022	20°6697
55884	C	8931	9°1	0°8040	14°0313	56992	B	6561	9°1	1°9643	10°4179	58252	C	9199	9°3	5°6898	17°8224
55884	B	6483	6°8	1°1592	8°6614	57661	C	9056	9°0	3°3279	26°0055	57967	B	6643	9°0	6°1870	9°6545
56250	C	8934	8°6	1°3226	19°4276	56738	B	6570	7°7	4°9575	5°2497	58377	C	9203	9°5	6°3646	21°0043
...	B	6485	8°8	1°3362	0°3894	56713	C	9069	9°4	5°1768	13°6784	58063	C	9206	9°2	6°5326	12°1278
56221	C	8950	9°1	4°8041	18°0156	57114	C	9074	9°1	5°5596	12°4317	57968	B	6647	8°5	6°9668	9°7393
56418	C	8954	9°0	5°3549	23°4946	57076	C	9076	9°0	5°8715	13°4586	57829	B	6651	8°2	8°2561	5°1567
56101	C	8963	9°2	6°2340	15°2374	57116	C	9076	9°0	5°8715	13°4586	58256	C	9218	8°1	9°0240	18°1842
56350	C	8964	8°6	6°2741	21°4225	57044	C	9084	9°3	7°4006	11°6733	57800	B	6654	8°9	9°4437	4°3527
56479	C	8965	7°9	6°3896	24°8765	57162	C	9089	7°4	8°5230	15°1595	57800	C	9222	9°3	9°5679	12°6506
55845	B	6498	8°6	6°6047	7°8306	56886	B	6581	8°4	9°1080	7°7221	58065	B	6656	8°8	9°9381	4°4606
56445	C	8971	9°0	7°0697	24°0331	57164	C	9095	9°2	9°2173	15°0541	57802	B	6657	9°0	9°9663	4°6605
56354	C	8976	8°0	7°3455	21°3786	56713	B	6586	8°2	9°4315	3°6099	58007	B	6658	8°9	9°9997	9°9023
56105	C	8978	9°1	7°6298	15°1946	56670	B	6588	9°1	9°8318	2°9392	58066	C	9225	8°9	10°0241	12°3030
56065	C	8981	9°0	8°1311	14°4861	56749	B	6592	9°0	10°6464	4°4801	58497	C	9226	9°2	10°0560	24°3311
56157	C	8984	9°0	8°6646	15°9198	57346	C	9103	9°1	10°9951	19°1962	57803	B	6660	8°3	10°3681	4°3175
55752	B	6506	8°9	8°7133	4°7478	57346	C	9103	9°1	10°9951	19°1962	58500	C	9229	9°4	10°6410	24°5737
56070	C	8989	9°0	10°1772	13°8855	57335	C	9105	8°5	11°7313	22°5021	57911	B	6664	8°0	10°8908	7°4144
55823	B	6512	8°7	10°3092	7°2779	57676	C	9109	8°5	11°9006	26°1757	58067	C	9232	9°5	10°8946	12°3208
56072	C	8990	8°0	10°4882	14°1148	57052	C	9111	8°1	12°2622	12°0069	57806	B	6666	8°8	12°0198	4°0015
56110	C	8991	9°2	10°6188	15°3172	57349	C	9112	9°0	12°4873	18°9556	58502	C	9248	8°4	13°6880	24°2292
56361	C	8992	9°2	10°8220	20°8103	56926	B	6598	8°0	12°9223	8°3316	58343	C	9249	9°0	13°7592	20°5248
56032	C	8996	8°5	11°5343	12°7537	57678	C	9119	6°8	13°8506	25°4553	58101	C	9254	9°4	15°0498	12°8454
55970	C	8997	9°2	11°6128	11°4876	57681	C	9121	9°5	14°4464	25°4321	...	B	6674	7°4	15°1280	0°3151
56074	C	9000	8°8	12°2034	13°9089	57305	C	9125	9°2	14°9533	17°2761	58103	C	9256	9°5	15°5846	13°1340
56037	C	9005	8°0	12°8849	12°9317	57055	C	9126	9°0	15°3353	12°0261	58071	C	9260	6°3	16°0836	12°1989
56398	C	9006	8°9	12°9941	21°8712	56970	B	6602	7°8	15°4097	9°7683	58105	C	9264	9°4	16°4856	13°0518
55612	B	6521	8°8	13°0685	1°0555	57686	C	9133	9°0	15°8304	26°1224	58266	C	9268	8°8	16°8754	18°5286
56198	C	9009	9°3	13°4176	16°8891	57094	C	9150	8°2	18°1738	12°2298	58544	C	9270	9°5	16°9363	25°2284
56365	C	9011	9°1	14°2061	20°9676	57312	C	9159	9°5	19°2406	17°7908	57756	B	6682	9°0	17°0842	2°1856
56234	C	9013	7°5	14°4276	17°9795	57462	C	9164	8°2	20°2983	21°1276	58108	C	9279	9°1	18°7614	12°9422
						57266	C	9165	8°8	20°5631	16°7914	57728	B	6687	7°7	19°1950	0°8899
						57317	C	9168	8°6	21°1598	17°4383	58073	C	9282	9°4	19°3047	11°9887
						57563	C	9170	9°1	21°2857	22°9791	58547	C	9286	9°3	19°5410	25°5755
						56694	B	6619	8°8	21°2993	2°5074	57951	B	6696	8°5	20°3819	8°3490
						57098	C	9173	9°3	21°8156	13°1091	58519	C	9293	9°1	20°8843	24°0439
						57145	C	9176	9°0	22°3416	13°5643	58167	C	9300	9°1	22°8138	15°5309
						56905	B	6627	9°3	22°5946	8°1703	57853	B	6711	8°7	23°9168	5°7884
						56865	B	6628	9°0	23°6082	7°1462	58523	C	9310	7°8	24°2944	23°9112
						57407	C	9182	8°3	23°9578	19°2110	57790	B	6714	9°0	24°5653	3°6429
						57567	C	9184	9°4	24°0906	23°0762						

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R.A. 18 ^h 44 ^m (continued)					Plate 1203. R.A. 19 ^h 0 ^m					Plate 2366. R.A. 19 ^h 8 ^m							
58082	C	9316	8.4	24.8894	12.5021	59194	B	6780	8.7	0.2316	8.6510	59911	C	9597	9.3	0.2162	22.8304
58485	C	9320	9.2	25.0947	23.7626	59391	C	9453	5.6	1.3608	26.1514	59912	C	9598	8.7	0.2570	22.8561
58524	C	9321	9.2	25.0983	23.9267	59240	C	9461	9.0	2.0926	13.4620	59744	C	9600	9.1	0.3316	13.9213
						59241	C	9462	8.6	2.2637	13.5597	59843	C	9602	9.2	0.4910	20.1507
						59349	C	9463	9.3	2.4807	23.3859	59624	B	6858	8.9	0.5429	7.3437
						59330	C	9464	9.0	2.7900	21.1525	59824	C	9603	9.3	0.5615	19.1517
						59392	C	9465	9.2	2.8919	25.8981	59791	C	9608	9.0	1.7000	16.5066
						59117	B	6796	8.9	5.9304	1.8235	59627	B	6862	7.2	1.7810	7.8582
						59216	B	6797	7.2	6.0899	11.6097	59729	C	9609	9.2	1.9059	12.4338
						59351	C	9489	9.3	6.1413	23.5601	59792	C	9610	9.0	1.9260	16.3103
						59322	C	9495	9.0	7.0985	20.3554	59937	C	9611	7.7	2.0537	23.2921
						59261	C	9503	9.2	7.8223	14.9685	59939	C	9614	8.8	2.2281	23.5019
						59106	B	6804	8.6	8.0478	1.5622	59779	C	9618	7.5	2.5756	15.6628
						59275	C	9505	9.4	8.1715	15.8763	59914	C	9619	8.6	2.7368	22.2116
						...	B	6808	8.2	9.8758	0.6490	59534	B	6865	8.9	3.2392	3.1402
						59352	C	9521	8.9	10.4592	23.4538	59515	B	6866	7.0	3.2986	1.2664
						59262	C	9522	8.3	10.4744	14.7478	59655	B	6868	8.5	4.8922	8.9563
						59205	B	6811	9.1	10.7730	10.4797	59768	C	9631	7.8	5.0862	14.9403
						59334	C	9525	7.3	10.8711	21.1523	59796	C	9642	9.0	6.5395	17.1020
						59243	C	9526	9.1	11.0385	13.5030	59502	B	6872	8.8	6.6026	0.5815
						59231	C	9527	9.4	11.1238	12.1895	59751	C	9645	8.7	6.8943	13.2946
						59187	B	6813	9.3	11.1593	8.2907	59889	C	9647	9.0	7.1046	22.0970
						59366	C	9528	7.8	11.2417	23.8618	59945	C	9650	8.9	7.9897	23.8341
						59251	C	9531	8.7	11.5792	13.7627	59797	C	9651	8.8	8.2442	17.0988
						59353	C	9537	9.0	12.2577	23.6413	59829	C	9654	9.5	8.8549	18.3017
						59276	C	9541	8.8	13.2305	16.6347	59828	C	9655	9.5	8.8718	18.3487
						59233	C	9543	9.3	13.9451	11.9490	59659	B	6880	8.7	9.3135	8.6182
						59311	C	9547	8.9	14.4090	19.4736	59851	C	9661	9.5	9.6848	20.0750
						59324	C	9551	8.1	14.7000	20.6393	59783	C	9662	8.3	10.0516	15.6597
						59210	B	6832	8.6	15.0467	10.1957	59610	B	6883	9.0	10.1637	6.8323
						59218	C	9556	9.5	15.3934	11.6899	59735	C	9667	8.6	10.6974	12.9281
						59336	C	9558	7.7	15.6042	21.2414	59771	C	9683	9.2	11.8217	14.5622
						59344	C	9564	7.6	16.4247	22.2489	59754	C	9684	9.4	11.9218	13.3991
						59265	C	9568	9.4	17.2615	14.7288	59994	C	9687	6.9	12.1187	25.9929
						59345	C	9576	9.2	18.3239	22.3249	59594	B	6894	9.4	13.8086	6.0790
						59178	B	6843	8.2	19.0585	7.0090	59855	C	9696	8.8	13.8429	19.9834
						59121	B	6846	6.4	19.7622	2.1599	59833	C	9697	9.3	14.0242	18.6774
						59296	C	9583	9.0	19.7684	17.3731	59595	B	6896	8.3	14.4812	5.8974
						59246	C	9590	9.5	20.7561	13.1897	59719	B	6903	8.1	17.0437	11.2848
						59255	C	9596	9.0	21.4872	14.3505	59755	C	9718	9.2	17.0665	14.0586
						59162	B	6855	8.7	21.6258	5.4590	59617	B	6905	8.5	17.1460	6.5307
						59359	C	9597	9.3	21.8252	22.8004	59998	C	9723	9.0	17.2312	25.5314
						59360	C	9598	8.7	21.8655	22.8262	59860	C	9728	7.1	17.8347	20.0533
						59256	C	9600	9.1	22.0718	13.8947	59618	B	6907	8.7	17.9343	6.9387
						59326	C	9602	9.2	22.1395	20.1253	59775	C	9733	9.2	18.9143	14.3452
						59318	C	9603	9.3	22.2247	19.1276	59699	B	6911	7.3	18.9410	11.1005
						59182	B	6858	8.9	22.3803	7.3213	59881	C	9744	9.0	20.3154	20.4867
						59282	C	9608	9.0	23.4020	16.4998	59600	B	6914	8.9	20.3368	5.4284
						59191	B	6862	7.2	23.6105	7.8537	59757	C	9748	8.9	20.9231	13.8876
						59237	C	9609	9.2	23.6676	12.4309	59803	C	9752	9.1	21.7793	16.3817
						59283	C	9610	9.0	23.6312	16.3071	59862	C	9754	9.2	21.9386	19.3296
						59361	C	9611	7.7	23.6580	23.2900	59863	C	9756	8.9	22.2277	20.0105
						59362	C	9614	8.8	23.8272	23.5023	59760	C	9757	9.5	22.4238	13.3307
						59267	C	9618	7.5	24.2897	15.6693	59864	C	9758	8.9	22.5727	19.6709
						59347	C	9619	8.6	24.3540	22.2197	59666	B	6921	8.6	23.0200	8.4044
						59135	B	6865	8.9	25.1381	3.1572	59513	B	6922	9.1	23.1920	0.8245
						59114	B	6866	7.0	25.2252	1.2844	59667	B	6925	8.5	23.9030	8.3342
												59934	C	9774	8.8	24.2221	23.0339
												59531	B	6927	8.6	24.6291	1.6263
												59805	C	9776	9.1	24.9863	16.4736
												59842	C	9777	9.0	25.1251	18.9458
												59550	B	6928	8.0	25.2645	2.2801
												59650	B	6930	8.6	25.8588	7.6658

Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.			
+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.	
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Plate 2374. R.A. 19 ^h 16 ^m					R.A. 19 ^h 24 ^m (continued)					R.A. 19 ^h 32 ^m (continued)				
60545	C 9752	9.1	0°0756	16°4127	61449	C 9951	9.1	5°9794	16°5120	62233	C 10148	8.1	11°9655	12°4381
60657	C 9754	9.2	0°2784	19°3580	61374	C 9955	8.5	6°2724	14°1366	62474	C 10150	7.5	12°0805	20°1108
60684	C 9756	8.9	0°5775	20°0346	61704	C 9956	7.5	6°3695	23°8814	62371	C 10152	8.5	12°6619	16°8947
60449	C 9757	9.5	0°6750	13°3522	61331	C 9960	8.6	6°7603	12°9005	62027	B 7129	8.3	12°7097	7°0818
60658	C 9758	8.9	0°9175	19°6898	61068	B 7016	9.1	6°7673	6°2489	62273	C 10158	8.9	13°0131	13°7640
60293	B 6921	8.6	1°1986	8°4174	61257	B 7017	8.1	7°0401	11°2539	62169	B 7136	8.5	13°5808	11°0958
60101	B 6922	9.1	1°2587	0°8355	61674	C 9966	9.1	7°3077	22°8863	62238	C 10166	9.0	13°7490	12°2112
60297	B 6925	8.5	2°0806	8°3344	61487	C 9973	8.5	8°5563	17°8079	62172	B 7141	8.5	13°8135	10°3392
60782	C 9774	8.8	2°6172	23°0274	61455	C 9975	8.8	8°8179	16°5631	62058	B 7142	9.1	13°9635	7°3189
60115	B 6927	8.6	2°7084	1°6166	61456	C 9976	9.0	8°8392	16°5587	61924	B 7143	8.6	14°1345	3°1640
60549	C 9776	9.1	3°2838	16°4567	61308	C 9986	9.5	10°2670	12°7595	62276	C 10174	9.0	14°6658	13°7769
60138	B 6928	8.0	3°3525	2°2615	61380	C 9987	9.2	10°3132	14°5024	62176	B 7146	8.3	14°6729	10°6789
60659	C 9777	9.0	3°4590	18°9263	61344	C 9988	9.5	10°3221	13°1441	62345	C 10179	8.7	15°7999	15°4817
60275	B 6930	8.6	4°0261	7°6376	61540	C 9990	9.2	10°7535	18°1751	61926	B 7151	8.8	15°9595	3°7350
60163	B 6932	8.4	4°6942	2°8882	61310	C 9991	9.2	10°9308	12°6061	62667	C 10181	8.4	16°0761	24°1655
60807	C 9785	9.0	5°1380	24°8333	60907	B 7033	8.2	11°1513	0°7397	62372	C 10186	8.1	16°3133	16°9068
60452	C 9788	7.8	5°8840	13°7079	61036	B 7034	8.3	11°3222	5°1778	61859	B 7156	8.0	17°1534	1°4324
60726	C 9794	8.7	6°5794	21°0604	61731	C 10004	8.5	12°0008	25°0045	62181	B 7160	7.8	17°3777	10°5083
60520	C 9797	8.0	6°8731	15°1832	61233	B 7041	6.9	13°7522	10°4882	62036	B 7161	7.8	17°6620	6°8474
60165	B 6938	9.4	6°9854	3°8029	61073	B 7046	4.2	14°4942	6°5548	62478	C 10195	9.0	17°6973	19°8518
60166	B 6940	6.9	7°5653	3°7514	61120	B 7050	5.3	15°1220	7°7481	62587	C 10199	7.5	17°9180	22°4927
60832	C 9803	8.8	8°0440	24°9639	61741	C 10033	9.4	16°6428	25°4081	62279	C 10202	9.3	18°3529	13°7187
60809	C 9806	8.9	8°2756	24°7373	61351	C 10034	9.1	17°2527	13°2528	62248	C 10211	9.3	19°2308	13°0715
60785	C 9807	7.3	8°6082	23°5043	61664	C 10038	8.7	18°1822	22°5310	62545	C 10212	7.7	19°3929	22°0298
60838	C 9815	9.0	10°7392	25°6162	61276	B 7061	7.4	18°1988	11°1743	62282	C 10214	9.5	19°8948	13°7384
60562	C 9818	9.1	11°0434	15°8603	60959	B 7062	9.0	18°6421	2°8314	62284	C 10220	8.7	20°7113	13°4192
60427	C 9836	9.0	13°4665	12°2744	60988	B 7066	8.3	19°1168	3°5583	62723	C 10226	9.2	21°2479	25°6178
60480	C 9842	9.0	14°3099	14°6832	61321	B 7068	6.8	19°7009	11°9458	62251	C 10227	9.0	21°7335	12°8928
60428	C 9846	9.4	14°8045	12°2418	61210	B 7071	9.2	20°0010	9°6640	62641	C 10228	9.0	21°7809	23°2755
60430	C 9847	9.4	15°4090	12°1837	61514	C 10069	6.7	23°6860	17°6197	62185	B 7176	8.9	21°9029	11°0310
60646	C 9855	7.1	16°6374	17°9863	61437	C 10077	8.9	24°8710	15°5765	62683	C 10239	9.2	22°5950	25°0091
60605	C 9858	7.5	17°1411	17°6306						62381	C 10242	8.7	22°9636	16°4590
60573	C 9863	8.9	17°5998	16°4126						61970	B 7180	6.4	22°9943	4°7225
60457	C 9869	9.4	18°0580	13°0714						62214	B 7184	9.0	23°6610	11°3659
60775	C 9872	9.0	18°5916	22°7332						62292	C 10248	9.2	23°7204	13°3772
60227	B 6983	9.2	18°9674	5°6711						62687	C 10251	8.9	23°8690	24°5446
60363	B 6986	7.8	20°0098	9°8254						62323	C 10252	8.9	24°2513	15°0149
60491	C 9882	8.7	20°1872	14°6213						62294	C 10256	9.2	24°4572	13°6278
...	C 9885	5.4	20°4207	25°8667						62733	C 10257	7.7	24°5906	26°0545
60577	C 9887	9.2	20°5766	16°3660						62426	C 10259	9.1	24°7425	18°0713
60736	C 9896	8.7	21°1961	21°7749						62644	C 10262	9.2	25°0877	23°1357
60611	C 9898	9.2	21°3968	17°8029						62645	C 10263	9.4	25°2544	23°6763
60442	C 9915	9.2	23°9793	12°0200						62427	C 10264	9.2	25°4384	17°4333
60467	C 9919	9.2	24°2900	13°5553						62012	B 7198	8.1	25°5317	5°1350
60443	C 9925	9.5	24°6583	12°0802						62385	C 10265	9.0	25°5320	16°2905
60682	C 9927	9.5	24°7645	19°3187						62554	C 10267	9.5	25°5904	21°2816
60444	C 9932	9.4	25°1774	12°2214										
Plate 2375. R.A. 19 ^h 24 ^m					Plate 2288. R.A. 19 ^h 32 ^m					Plate 2676. R.A. 19 ^h 40 ^m				
61288	C 9915	9.2	2°2112	12°0185	62389	C 10069	6.7	2°0005	17°6220	...	B 7176	8.9	0°1203	11°0602
61326	C 9919	9.2	2°5446	13°5489	62331	C 10077	8.9	3°1552	15°5614	...	C 10228	9.0	0°1789	23°3061
61289	C 9925	9.5	2°8910	12°0687	62693	C 10087	9.0	5°2883	25°4578	63511	C 10239	9.2	1°0186	25°0273
61556	C 9927	9.5	3°1039	19°3048	62262	C 10096	9.1	5°9213	13°6437	62901	B 7180	6.4	1°1186	4°7360
61290	C 9932	9.4	3°4121	12°2024	62088	B 7095	9.3	6°1071	8°3955	63270	C 10242	8.7	1°2610	16°4723
61448	C 9945	8.5	5°1565	16°3342	61807	B 7096	8.3	6°3638	0°3125	63123	B 7184	9.0	1°8833	11°3694
61558	C 9948	8.4	5°2793	19°1401	62403	C 10099	9.0	6°7053	17°9444	63175	C 10248	9.2	1°9723	13°3795
61186	B 7012	6.3	5°6310	9°8420	61980	B 7099	8.7	7°2240	5°4573	63513	C 10251	8.9	2°2857	24°5435
61559	C 9949	8.3	5°6708	19°1801	62605	C 10102	7.6	7°2884	23°1470	63209	C 10252	8.9	2°5273	15°0092
					62467	C 10103	7.0	7°3211	20°0767	63177	C 10256	9.2	2°7127	13°6192
					62303	C 10108	7.3	7°7817	14°6323					
					62407	C 10112	8.7	8°3107	17°4033					
					62224	C 10118	8.7	9°3932	12°2067					
					62498	C 10119	9.2	9°4038	20°7878					
					62567	C 10121	8.8	9°5030	22°8722					
					61983	B 7108	8.6	9°6333	5°3300					
					62166	B 7111	8.6	9°8952	10°7362					
					62022	B 7113	8.5	10°2781	6°4445					
					62569	C 10130	8.6	10°2816	22°8146					
					62570	C 10132	8.2	10°4084	22°4730					
					62228	C 10135	9.2	10°6886	13°1188					
					62229	C 10139	9.0	11°1435	12°7371					
					62230	C 10141	9.0	11°3623	12°1982					
					62271	C 10145	9.3	11°7196	13°2212					
					62445	C 10147	9.2	11°9518	18°6912					

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Oxford No.	Number.	Mag.	1900'o.		Oxford No.	Number.	Mag.	1900'o.		Oxford No.	Number.	Mag.	1900'o.	
+25°.			ξ'.	η'.	+25°.			ξ'.	η'.	+25°.			ξ'.	η'.
R.A. 19 ^h 40 ^m (continued)					R.A. 19 ^h 48 ^m (continued)					Plate 1202. R.A. 19 ^h 56 ^m				
63304	C 10259	9'1	3'0635	18'0579	63603	B 7276	8'3	1'1175	0'8867	65276	C 10603	9'0	0'6350	22'6810
63444	C 10262	9'2	3'4835	23'1162	63862	B 7283	6'9	2'5419	10'1624	65042	C 10605	9'1	0'7715	17'4299
63483	C 10263	9'4	3'6580	23'6542	63817	B 7285	9'0	2'8971	9'5819	65076	C 10606	9'0	0'8349	17'4978
62903	B 7198	8'1	3'6618	5'1120	63819	B 7287	7'5	3'1084	9'5847	64500	B 7361	8'9	0'8987	0'4484
63305	C 10264	9'2	3'7501	17'4094	64138	C 10431	9'3	3'3131	18'9158	64799	B 7363	9'1	1'2026	9'8873
63273	C 10265	9'0	3'8266	16'2655	64218	C 10432	9'1	3'3394	21'4707	64764	B 7366	8'9	1'5208	9'1463
63386	C 10267	9'5	3'9586	21'2548	64178	C 10433	9'1	3'6523	19'7295	64946	C 10625	9'1	3'0320	13'7961
62875	B 7208	9'0	5'6832	3'8433	64219	C 10435	9'2	3'8170	21'5341	64725	B 7369	8'8	3'4637	7'4763
62970	B 7216	8'6	7'1526	6'7619	64041	C 10439	9'5	4'1879	15'8179	65349	C 10633	9'0	4'3117	24'4784
63007	B 7219	9'0	8'4288	7'9725	63728	B 7290	8'6	4'2207	6'4659	64919	C 10635	9'4	4'3961	13'1323
63486	C 10302	8'8	8'7005	24'1445	64101	C 10440	9'4	4'4133	17'8505	65006	C 10641	7'9	4'8521	15'6680
62935	B 7229	7'2	9'9929	5'4344	64104	C 10443	9'4	4'9758	18'1189	65283	C 10642	8'8	5'2294	23'0086
63328	C 10317	9'1	10'3705	18'6495	64042	C 10448	8'1	5'3908	16'0815	64848	B 7379	8'8	6'2555	11'3325
63187	C 10325	9'4	11'5969	13'3709	64396	C 10452	8'9	5'7924	25'9802	64589	B 7380	7'8	6'5076	3'7201
63364	C 10326	5'9	11'8007	19'3897	63671	B 7299	9'0	5'9352	4'1910	65350	C 10655	7'6	6'6160	25'3135
63156	C 10328	9'5	12'2869	12'3579	63916	C 10461	9'4	6'6787	11'8352	64952	C 10656	9'1	6'7360	13'8003
63394	C 10329	9'4	12'3479	21'2398	63917	C 10466	9'1	7'1749	12'3978	64729	B 7383	9'0	6'8729	8'1324
63102	B 7240	8'6	12'7975	10'2967	63952	C 10471	9'0	7'7710	13'3996	65011	C 10658	9'0	7'2238	15'6271
63251	C 10337	9'1	13'5601	15'5088	64110	C 10472	9'4	7'9688	18'6411	65390	C 10661	9'3	7'4493	25'8014
63418	C 10338	8'8	13'6284	21'7736	63955	C 10477	9'4	8'9266	13'6676	65324	C 10667	8'5	8'4167	23'6919
63157	C 10341	9'5	13'8151	13'1859	63957	C 10478	9'4	9'0587	13'2935	64538	B 7393	8'6	8'8772	1'9352
62806	B 7241	8'8	14'0168	0'4782	63959	C 10483	9'2	9'3367	13'5829	64565	B 7394	9'3	8'9622	3'2867
63399	C 10359	8'6	16'0111	21'0241	63702	B 7315	7'3	9'4341	5'4751	64775	B 7395	8'7	9'3262	8'9932
63255	C 10360	9'3	16'0697	15'6069	63960	C 10486	9'4	9'6600	13'1094	64925	C 10674	9'5	9'6435	13'0005
62836	B 7250	8'7	16'1958	1'9931	63628	B 7321	8'4	10'9311	1'7884	65255	C 10677	8'6	9'9734	21'6083
63426	C 10363	9'0	16'2855	22'0462	63994	C 10496	9'1	11'1713	14'2614	65095	C 10679	8'4	10'0337	18'4355
63335	C 10362	9'0	16'2990	19'0286	64333	C 10500	7'4	11'5609	24'6348	65097	C 10686	8'3	10'9614	17'9875
63257	C 10364	9'1	16'4220	16'2359	64375	C 10503	7'7	11'9220	24'7666	64631	B 7406	9'0	10'9878	4'5081
63401	C 10366	9'1	16'4882	21'0855	63996	C 10504	9'4	12'0354	13'9276	64660	B 7407	8'4	11'1165	6'4150
63465	C 10369	9'2	16'6831	22'4667	63872	B 7328	4'8	12'5086	9'8218	64895	B 7410	9'1	11'3973	12'2349
63160	C 10368	9'4	16'7192	12'5837	64376	C 10516	9'0	13'3946	25'0705	64897	B 7414	8'1	12'4966	11'8144
62947	B 7253	9'1	17'1054	6'2126	64193	C 10517	7'5	13'4180	20'2573	65223	C 10699	7'0	12'8044	21'1203
63225	C 10371	9'5	17'1477	14'3345	64228	C 10520	8'5	13'5673	21'4573	65225	C 10703	9'2	13'1652	20'9306
63336	C 10378	9'5	17'9071	19'0414	64344	C 10538	9'1	15'6510	24'2176	65334	C 10704	6'4	13'2173	23'9626
63135	B 7259	8'2	18'5488	12'0884	63634	B 7336	8'8	15'8020	2'5917	65228	C 10707	9'0	13'6307	20'5747
63026	B 7263	8'6	19'0711	7'5771	64345	C 10543	8'9	15'9287	24'1563	64899	B 7418	8'7	14'0418	12'2870
63405	C 10389	8'9	19'2224	20'5031	64272	C 10551	9'0	16'4714	21'9000	64601	B 7420	9'0	14'1700	3'8973
63469	C 10393	9'0	19'6825	22'8386	64118	C 10553	9'0	16'5273	18'5267	64858	B 7423	8'7	14'6939	11'4527
63137	B 7264	6'4	19'6885	11'6781	64119	C 10554	9'0	16'5828	17'9745	65231	C 10721	9'2	15'0302	21'4412
63027	B 7266	9'0	20'7584	8'2506	64381	C 10565	9'5	17'7990	25'0066	64668	B 7425	8'6	15'8252	6'0034
63082	B 7271	9'0	21'4894	9'8470	64384	C 10572	8'7	18'9083	25'1339	65109	C 10728	8'7	15'9015	17'8460
63295	C 10413	9'5	22'1002	16'4141	63638	B 7349	5'8	19'2323	1'6959	65139	C 10730	9'3	16'0487	18'5250
63553	C 10415	8'5	22'3845	25'4398	64351	C 10575	8'8	19'3430	24'6029	65233	C 10735	9'1	16'4312	20'8054
63234	C 10418	6'2	22'8204	14'6775	63809	B 7353	7'0	20'1755	8'5161	65194	C 10737	9'1	16'6413	20'0642
62818	B 7276	8'3	23'0500	0'8735	64004	C 10582	8'0	20'3336	13'8455	64710	B 7429	6'0	17'1166	7'2787
63085	B 7283	6'9	24'3374	10'1687	63928	C 10583	8'8	20'4242	12'4966	64788	B 7430	5'0	17'8528	8'8968
63086	B 7285	9'0	24'7011	9'5935	64278	C 10584	8'2	20'4588	22'5231	64573	B 7432	8'6	18'0923	2'7981
63087	B 7287	7'5	24'9124	9'5995	64281	C 10603	9'0	22'2462	22'6575	64902	B 7434	8'4	18'2416	11'5180
63440	C 10432	9'1	24'9680	21'4882	64087	C 10605	9'1	22'4601	17'4092	65066	C 10755	9'4	18'5029	17'2121
63353	C 10431	9'3	24'9794	18'9332	64089	C 10606	9'0	22'5224	17'4779	65372	C 10765	9'5	19'9520	25'4111
63381	C 10433	9'1	25'3066	19'7517	...	B 7361	8'9	22'8377	0'4324	65374	C 10768	9'1	20'6317	25'3755
63441	C 10435	9'2	25'4447	15'5587	63885	B 7363	9'1	23'0023	9'8684	65375	C 10769	9'5	20'7822	24'8879
63268	C 10439	9'5	25'9000	15'8483	63845	B 7366	8'9	23'3313	9'1379	64790	B 7441	9'5	20'8957	8'8410
					64008	C 10625	9'1	24'7732	13'8094	64792	B 7443	8'7	21'9852	8'8405
					63782	B 7369	8'8	25'2988	7'4964	64966	C 10784	9'5	22'9062	14'0980
					64359	C 10633	9'0	25'8960	24'5105	65377	C 10789	8'8	23'3380	24'9042
										65000	C 10797	9'3	23'6326	15'0602
										65157	C 10799	8'0	23'7723	19'1466
										64969	C 10798	9'4	23'8119	13'8804
										64795	B 7454	8'5	24'6571	8'8389
										64614	B 7457	9'5	25'2514	4'3718
										65242	C 10812	9'4	25'5184	20'8537
										64615	B 7459	9'1	25'5580	4'2925
										65274	C 10814	7'9	25'7547	22'4496
Plate 1201. R.A. 19 ^h 48 ^m														
64031	C 10413	9'5	0'3970	16'4401										
64360	C 10415	8'5	0'8145	25'4611										
64009	C 10418	6'2	1'0915	14'6931										

Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.			
+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.	
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.
Plate 2376. R.A. 20 ^h 4 ^m					Plate 2289. R.A. 20 ^h 12 ^m					Plate 2287. R.A. 20 ^h 20 ^m				
65818	B 7443	8.7	0.1703	8.8687	67549	C 10977	9.0	1.3903	25.9107	67601	B 7638	8.1	0.1054	0.0723
65955	C 10784	9.5	1.1688	14.1123	67306	C 10979	9.4	1.4695	20.3143	67759	B 7642	8.9	1.1234	4.0869
66335	C 10789	8.8	1.7601	24.9111	66704	B 7549	9.0	1.6480	6.5308	67672	B 7644	8.8	1.6151	2.1240
65996	C 10797	9.3	1.9094	15.0637	67172	C 10995	7.5	3.0267	17.2264	67718	B 7645	9.1	1.8897	3.9149
65957	C 10798	9.4	2.0712	13.8813	67267	C 10998	8.8	3.1323	19.6329	68483	C 11156	8.9	2.7462	23.0599
66135	C 10799	8.0	2.1094	19.1475	66546	B 7558	8.9	3.3029	3.4096	68182	C 11158	9.3	2.7482	16.5610
65822	B 7454	8.5	2.8420	8.8282	67219	C 11000	9.0	3.4134	19.0070	68183	C 11161	9.5	2.8504	16.6381
65649	B 7457	9.7	3.3702	4.3531	67221	C 11002	9.5	3.9417	18.3626	68144	C 11163	9.3	3.0730	15.8465
65650	B 7459	9.1	3.6756	4.2694	67065	C 11008	9.3	4.7243	15.9542	68534	C 11169	9.2	3.8023	24.1377
66213	C 10812	9.4	3.8802	20.8279	67066	C 11010	8.8	4.9358	15.6680	68486	C 11170	9.3	3.9201	23.1176
66243	C 10814	7.9	4.1401	22.4201	66944	C 11011	8.5	4.9649	12.2992	68189	C 11174	9.0	4.4731	16.7892
66174	C 10816	9.2	4.3930	20.0840	66548	B 7572	8.1	5.5945	3.6991	68063	C 11180	9.5	5.3115	13.8873
66003	C 0824	8.4	4.8860	15.1892	66410	B 7573	6.2	5.8204	0.2409	68272	C 11188	8.8	6.1388	18.2076
66005	C 10826	9.4	5.2716	15.0060	67555	C 11014	9.5	6.2498	25.6203	67840	B 7661	8.6	6.2453	6.4008
66073	C 10832	7.9	6.5658	16.7925	67177	C 11018	9.0	6.4793	17.3867	68232	C 11193	9.1	6.6297	17.9917
65615	B 7469	8.5	6.6294	3.0969	66985	C 11020	9.5	6.5158	13.6609	67640	B 7663	8.9	6.8392	1.4322
65582	B 7477	8.7	7.3278	1.8502	67557	C 11021	9.4	6.5710	25.4957	67676	B 7664	5.2	6.8607	2.5362
66007	C 10840	8.3	7.4818	15.0707	67228	C 11023	9.5	6.8046	18.7668	67765	B 7666	8.8	7.0896	4.4208
65620	B 7484	8.5	8.8070	2.7776	67559	C 11025	9.5	7.5991	25.4777	68578	C 11197	8.1	7.4094	25.2346
66310	C 10848	9.2	8.9541	24.6245	66769	B 7581	7.4	8.2090	7.4972	68498	C 11203	9.4	8.0638	23.1136
66076	C 10850	8.5	9.0779	17.7693	66988	C 11034	9.2	9.0105	13.5607	68369	C 11209	9.2	8.3060	20.3252
66284	C 10858	8.4	10.4376	23.7194	66989	C 11037	8.9	9.2424	13.1991	68539	C 11212	7.3	8.4537	24.7464
66257	C 10859	9.5	10.6049	22.3267	66850	B 7587	8.7	9.2506	9.4429	68113	C 11214	9.4	8.6177	14.1612
66223	C 10863	9.4	11.2003	21.6773	67317	C 11039	9.4	9.6902	20.6544	67604	B 7672	8.5	9.5886	0.5624
65686	B 7488	8.6	11.4212	4.9401	66885	B 7588	8.6	9.7950	10.7838	68454	C 11227	9.2	9.8699	22.2583
66189	C 10871	9.0	12.7547	20.5530	67563	C 11042	9.1	10.0945	25.0109	68116	C 11228	9.2	10.0824	14.7449
66191	C 10875	9.2	12.9807	20.0039	67511	C 11043	9.5	10.1309	24.9361	68373	C 11231	9.2	10.3242	20.7701
66258	C 10881	9.5	13.2265	22.5413	67130	C 11045	5.2	10.3588	16.4391	68076	C 11232	9.3	10.7836	13.6099
66344	C 10882	8.0	13.3059	25.7117	67133	C 11056	9.3	11.4236	16.4885	68321	C 11235	9.0	11.0201	19.3215
66015	C 10885	9.1	13.4937	15.1731	67318	C 11057	9.0	11.4472	20.0081	68078	C 11240	9.3	11.6088	13.4939
65733	B 7498	7.9	14.1346	6.6132	67518	C 11059	8.5	11.7343	24.4236	68119	C 11242	9.3	11.9569	14.2991
66195	C 10891	8.9	14.1477	20.6855	67319	C 11063	9.5	12.1979	20.3815	68294	C 11243	9.3	12.0053	18.3561
65694	B 7499	8.3	14.1597	5.2999	66479	B 7596	8.9	12.4137	1.7521	68456	C 11244	9.5	12.2327	22.3911
66321	C 10894	7.8	14.4223	24.7932	66615	B 7600	8.2	13.0884	4.6416	68295	C 11245	9.5	12.3123	18.3276
65949	C 10895	8.6	14.8631	13.5402	66996	C 11071	9.2	13.3642	13.5107	68458	C 11246	9.5	12.7677	22.5659
65734	B 7505	8.6	14.8932	6.6837	67283	C 11073	8.0	13.6229	19.7853	67613	B 7679	7.3	13.3195	0.4383
65926	C 10897	9.5	14.9778	11.8260	67086	C 11077	9.2	14.2025	15.9545	68378	C 11254	8.2	13.9651	20.1068
66347	C 10904	9.5	15.8686	25.1909	66679	B 7607	5.8	14.3806	5.3550	67992	B 7684	7.9	14.3615	11.2579
65980	C 10906	9.2	16.0596	13.9571	67482	C 11084	9.0	15.2945	23.5957	68461	C 11262	7.5	14.5176	22.6374
66263	C 10908	9.4	16.0659	22.6012	66435	B 7609	9.0	15.5408	0.3186	68122	C 11267	9.2	15.0675	14.1844
65838	B 7509	8.8	16.0768	9.1497	66440	B 7615	8.9	16.4424	0.7679	67618	B 7686	8.8	15.0829	0.5593
66324	C 10910	9.0	16.1680	23.9017	67572	C 11099	8.3	16.6860	25.7552	68165	C 11269	9.4	15.4803	15.6177
66264	C 10912	9.4	16.3995	22.0522	67092	C 11106	9.0	17.7485	15.1816	68244	C 11271	8.4	15.6215	17.6127
66053	C 10925	7.8	17.6941	15.8946	66577	B 7622	8.3	18.3192	3.2880	67661	B 7692	8.9	15.8584	1.0365
66351	C 10928	9.5	18.0651	24.8983	67093	C 11110	8.5	18.4156	15.3941	67849	B 7695	8.6	16.3735	6.7362
65701	B 7522	9.3	18.3815	4.9635	67199	C 11112	7.4	18.5410	17.0563	68559	C 11281	9.4	16.6742	24.1804
66055	C 10931	9.1	18.4257	16.6998	67140	C 11114	8.4	18.7345	16.6925	68083	C 11283	8.2	16.8226	13.2936
66327	C 10933	9.5	18.4322	24.4571	67445	C 11126	8.2	20.7923	22.5586	68560	C 11289	8.4	16.9526	24.1757
65981	C 10934	8.6	18.5078	13.9663	67340	C 11129	9.0	21.0252	19.9949	68431	C 11296	8.5	17.6140	21.5126
65703	B 7526	8.9	18.9181	5.3399	66450	B 7638	8.1	22.0501	0.0449	68522	C 11299	9.0	18.0360	23.9429
65870	B 7527	7.1	19.0451	10.0502	66639	B 7642	8.9	23.0087	4.0734	67702	B 7700	8.5	18.1151	2.4204
66021	C 10938	9.2	19.0540	15.7162	66535	B 7644	8.8	23.5292	2.1178	68084	C 11300	9.3	18.1199	13.1245
66122	C 10940	9.2	19.1261	18.0730	66586	B 7645	9.1	23.7774	3.9126	68000	B 7701	8.6	18.9895	11.7814
66328	C 10944	9.5	19.5421	24.1247	67497	C 11156	8.9	24.3514	23.0681	68129	C 11312	8.2	19.6579	14.9361
66294	C 10946	9.5	19.6126	23.1599	67158	C 11158	9.3	24.4492	16.5701	68524	C 11313	9.0	19.7433	23.7034
66298	C 10962	8.9	21.2785	23.1450	67159	C 11161	9.5	24.5504	16.6486	68168	C 11320	8.9	20.3225	15.5400
66028	C 10963	8.6	21.5953	14.9038	67108	C 11163	9.3	24.7845	15.8603	68216	B 7707	9.2	20.3599	16.1922
...	C 10977	9.0	22.9536	25.8980	67546	C 11169	9.2	25.3916	24.1620	67821	B 7708	8.9	20.4415	4.9938
66207	C 10979	9.4	23.1153	20.3035	67499	C 11170	9.3	25.5244	23.1438	68217	C 11323	8.6	20.8400	16.7432
65743	B 7549	9.0	23.4970	6.5245						67824	B 7712	8.5	21.2321	5.6393
66102	C 10995	7.5	24.7179	17.2396						68170	C 11330	9.4	21.5290	15.1759
66164	C 10998	8.8	24.7881	19.6473						68132	C 11333	9.5	22.3832	14.2860
66165	C 11000	9.0	25.0784	19.0257						68476	C 11334	7.8	22.5737	22.8324
65646	B 7558	8.9	25.1980	3.4225						68133	C 11335	9.5	22.9277	14.0613
66127	C 11002	9.5	25.6162	18.3894						68261	C 11345	9.3	23.7805	17.3624

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+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.	
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R.A. 20 ^h 20 ^m (continued)					Plate 441. R.A. 20 ^h 36 ^m					R.A. 20 ^h 36 ^m (continued)				
67936	B 7722	8.8	24.0894	9.9254	69943	C 11505	9.2	0.1620	15.6940	69968	C 11670	9.2	23.5898	16.1626
68347	C 11353	9.3	24.6367	19.9502	70047	C 11507	9.2	0.3894	19.6217	70066	C 11673	9.0	23.6914	19.4865
68135	C 11358	9.4	25.4337	14.0499	69873	C 11508	9.5	0.5585	13.5032	69612	B 7901	8.7	24.0088	1.0028
68392	C 11360	9.2	25.5240	20.3515	69913	C 11510	8.2	1.0499	14.6403	70067	C 11675	9.4	24.0306	20.2821
					69786	B 7799	8.7	1.7554	9.5363	69941	C 11681	9.3	24.8171	15.1903
					70048	C 11515	7.1	1.7706	19.4699	69755	B 7908	8.2	24.8254	8.4236
					70113	C 11517	9.0	1.8704	22.4423	70133	C 11683	9.3	24.9115	22.6135
					70168	C 11519	8.8	2.8001	25.6279	...	C 11685	9.3	25.1829	18.8902
					69845	C 11522	9.2	2.8010	12.0973	...	C 11688	5.7	25.3760	12.0140
					69690	B 7806	8.9	3.6009	5.6445					
					69916	C 11532	9.4	4.3151	14.5227					
					70170	C 11536	9.3	4.9779	25.4046					
					69738	B 7810	8.8	5.1822	8.2743					
					70070	C 11542	8.9	5.7975	20.9941					
					69638	B 7813	8.6	5.8234	2.8552					
					69657	B 7818	8.7	6.5805	3.5866					
					70150	C 11548	8.7	6.7715	24.5674					
					69901	C 11550	9.4	6.8119	13.7337					
					69658	B 7820	8.4	6.8423	4.3687					
					69823	B 7824	8.2	7.1298	10.9863					
					69853	B 7825	9.0	7.2521	12.1978					
					69953	C 11558	8.7	7.7188	15.8909					
					70101	C 11561	9.3	7.9162	21.5764					
					69695	B 7834	7.5	8.6162	6.1271					
					69922	C 11568	8.1	8.7590	15.4015					
					69605	B 7838	8.9	9.4101	1.3884					
					69619	B 7841	8.3	9.5786	1.7756					
					70104	C 11573	7.2	10.4542	21.6260					
					70055	C 11574	9.4	10.5418	19.5992					
					69985	C 11575	9.5	10.5762	16.6884					
					70056	C 11576	9.2	10.7181	19.5296					
					70154	C 11584	8.8	11.3372	24.4617					
					69725	B 7851	8.3	11.6870	7.0846					
					69856	B 7852	8.8	11.8608	11.8147					
					70155	C 11590	8.8	12.2093	24.9174					
					70124	C 11595	9.5	12.6283	23.2104					
					70157	C 11596	9.5	12.7110	25.0025					
					70081	C 11598	8.8	12.8157	21.2263					
					70010	C 11600	8.5	13.0253	18.2194					
					69928	C 11603	9.4	13.4765	15.0654					
					69929	C 11607	9.4	14.0360	14.8640					
					70105	C 11609	7.0	14.1158	21.6946					
					70141	C 11611	9.5	14.2183	23.5923					
					70108	C 11619	9.2	15.7020	22.2078					
					70127	C 11620	9.1	15.8101	22.6642					
					69904	C 11627	9.2	16.6727	13.7766					
					69892	B 7873	9.0	17.2948	12.7855					
					70085	C 11633	9.3	17.5003	20.8588					
					70163	C 11637	9.0	18.2620	25.0093					
					69866	B 7875	8.9	18.3617	12.2970					
					70086	C 11639	9.0	18.5420	20.9893					
					70087	C 11641	9.1	18.7483	21.2431					
					70109	C 11642	9.3	18.9749	21.8087					
					70146	C 11646	9.1	19.1314	24.1442					
					69936	C 11649	9.0	19.4523	14.5364					
					70044	C 11651	9.4	19.7780	19.0031					
					69810	B 7885	8.7	20.3444	10.2224					
					69649	B 7884	9.0	20.3549	3.1520					
					70147	C 11652	9.3	20.6347	23.8604					
					69996	C 11655	9.1	20.9702	16.7361					
					70148	C 11656	9.5	21.0000	23.8528					
					70045	C 11658	7.5	21.1985	18.5991					
					69965	C 11661	7.8	21.4278	15.9266					
					69907	C 11660	9.5	21.4387	13.7163					
					70019	C 11665	9.0	22.4632	18.3191					

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	Number.	Mag.	1900'o.			Number.	Mag.	1900'o.			Number.	Mag.	1900'o.	
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R.A. 20 ^h 44 ^m (continued)					R.A. 21 ^h 0 ^m (continued)					R.A. 21 ^h 8 ^m (continued)				
70628	C 11812	8.2	17.7126	21.3949	72005	C 12009	9.1	5.0374	14.4603	72732	C 12234	8.7	11.6839	12.8369
70438	C 11813	9.1	17.7715	12.8197	72433	C 12018	9.0	6.4390	25.5316	72968	C 12238	8.7	11.9158	23.6785
70574	C 11828	8.9	19.6164	18.6162	71965	C 12023	9.3	6.9607	13.4674	72985	C 12239	9.2	12.1216	24.7244
70511	C 11840	9.2	21.5168	15.2500	72215	C 12025	9.0	7.1492	18.9427	72970	C 12244	8.0	13.3005	23.8169
70593	C 11844	9.3	21.8026	18.9820	72216	C 12026	9.5	7.4614	19.1328	72751	C 12245	9.5	13.4087	13.2991
70607	C 11846	9.5	22.1215	20.5481	72336	C 12032	8.0	8.1993	22.1602	72687	B 8131	8.5	14.2543	10.4395
70267	B 7973	8.6	23.3600	5.0380	71442	B 8063	7.9	9.5935	1.6830	72752	C 12250	9.5	14.3536	13.5149
70631	C 11856	9.5	23.5627	21.3671	72218	C 12044	8.0	9.7318	19.2960	72988	C 12260	8.8	15.6501	24.0157
70332	B 7978	7.2	25.3534	7.4999	72014	C 12046	8.6	9.8492	14.7153	72833	C 12261	9.2	15.8138	17.6678
					72015	C 12052	9.3	10.4203	14.3395	72898	C 12264	9.3	16.1154	20.5246
					72179	C 12056	9.5	10.6887	18.0626	72800	C 12265	8.2	16.2461	15.8248
					72018	C 12058	9.1	10.9298	14.7804	72540	B 8137	9.0	17.0850	2.5374
					72180	C 12064	8.5	11.3581	18.5940	72976	C 12271	7.5	17.8568	23.1683
					72142	C 12066	9.5	11.7085	17.5936	72879	C 12285	9.1	20.5310	19.1717
					71445	B 8073	8.6	12.0014	0.9684	72859	C 12290	8.7	21.0307	18.1650
					72412	C 12069	8.2	12.2491	24.5123	72761	C 12298	7.3	22.6168	13.2531
					72145	C 12072	9.4	12.6042	17.5104	72905	C 12300	9.4	23.2713	20.7540
					72226	C 12074	9.0	12.6996	19.7425	72991	C 12301	7.1	23.4782	24.2345
					71629	B 8076	8.7	12.9253	5.1924	...	C 12307	8.7	24.8245	25.9694
					72147	C 12079	9.4	13.5610	17.7122	72862	C 12309	9.4	25.0605	18.5620
					72344	C 12086	9.5	14.2188	22.5234	72883	C 12312	9.4	25.4724	19.9380
					71537	B 8082	8.9	15.3251	3.4934	72787	C 12313	9.0	25.6554	14.9200
					71822	B 8083	7.8	15.3410	9.5480					
					71981	C 12094	8.9	15.5652	13.3592					
					72384	C 12098	9.5	15.8094	23.0223					
					71540	B 8087	8.5	16.0440	2.9813					
					72385	C 12102	9.4	16.3239	23.7677					
					72313	C 12104	9.2	16.4141	21.7608					
					72348	C 12105	9.5	16.4992	22.7225					
					71828	B 8090	8.7	16.8272	9.0585					
					71901	B 8091	8.9	16.8838	10.8427					
					71493	B 8092	7.9	17.2539	2.2009					
					71494	B 8093	8.5	17.4484	2.6603					
					72119	C 12118	9.2	18.0613	16.8388					
					72120	C 12122	8.4	18.7137	16.2219					
					72068	C 12124	9.2	18.7930	15.4952					
					72069	C 12126	9.2	18.8664	15.6915					
					71548	B 8100	8.7	20.1780	2.8519					
					71504	B 8103	8.8	21.3827	1.8904					
					71505	B 8104	9.4	21.4023	1.8844					
					72393	C 12163	9.1	22.9518	23.2521					
					72395	C 12167	9.1	23.8068	23.6431					
					72038	C 12179	9.0	25.7741	14.6363					

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	Number.	Mag.	1900°0.			Number.	Mag.	1900°0.			Number.	Mag.	1900°0.	
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R.A. 21 ^h 16 ^m (continued)					R.A. 21 ^h 24 ^m (continued)					R.A. 21 ^h 32 ^m (continued)				
73183	B 8197	8.7	18.2914	8.4866	73511	B 8262	8.5	20.1662	9.6095	74186	C 12773	9.0	23.4511	21.0332
73356	C 12414	8.5	18.3996	22.1857	73453	B 8261	9.0	20.1861	5.1263	74083	C 12778	9.5	24.2252	15.6363
73345	C 12422	9.0	19.2906	21.2165	73673	C 12592	8.6	20.1910	20.2970	74108	C 12782	9.1	24.9815	16.0644
73250	C 12430	9.0	20.1380	13.9323	73689	C 12601	8.9	20.7650	21.1813	74110	C 12788	9.1	25.6479	16.2139
73390	C 12439	8.9	20.9225	25.5520	73629	C 12602	9.0	20.7933	17.2756					
73175	B 8201	8.7	21.1856	7.4581	73675	C 12603	9.1	20.8921	20.5930					
73300	C 12444	9.1	21.2568	17.3865	73733	C 12605	8.8	21.0206	25.2677					
73310	C 12450	9.3	22.0628	18.8152	73676	C 12606	9.0	21.6906	20.1399					
73144	B 8207	9.1	22.4503	4.9751	73549	C 12608	9.2	22.0227	12.3716					
73145	B 8209	9.0	22.5785	4.9568	73522	B 8270	7.8	22.1654	10.3381					
73227	B 8210	6.3	22.9619	11.6238	73734	C 12611	9.5	22.2586	25.3070					
73391	C 12459	9.2	23.2737	25.7344	73562	C 12613	9.1	22.7407	13.2411					
73128	B 8212	6.9	23.6751	2.2209	73677	C 12614	9.3	22.7989	20.6690					
73200	B 8213	8.4	24.0247	10.0064	73665	C 12620	9.2	23.7804	19.3373					
73357	C 12462	5.0	24.1481	21.9750	73648	C 12626	9.2	24.4354	18.2285					
73325	C 12466	9.2	24.6505	19.0149	73553	B 8279	9.1	24.9253	12.3844					
73311	C 12468	7.0	24.7999	18.4478										
73113	B 8216	8.6	25.3945	0.9777										
73120	B 8217	8.3	26.1013	1.7786										
Plate 460. R.A. 21 ^h 24 ^m					Plate 471. R.A. 21 ^h 32 ^m					Plate 2290. R.A. 21 ^h 40 ^m				
73634	C 12450	9.3	0.3949	18.8419	...	C 12608	9.2	0.2599	12.3988	74484	B 8340	9.0	1.2344	7.6033
73438	B 8207	9.1	0.5783	4.9965	73960	B 8270	7.8	0.3726	10.3635	74781	C 12768	9.0	1.2369	19.6378
73439	B 8209	9.0	0.7062	4.9764	74223	C 12611	9.5	0.6866	25.3303	74811	C 12773	9.0	1.8159	21.0386
73527	B 8210	6.3	1.1880	11.6373	74025	C 12613	9.1	0.9906	13.2580	74674	C 12778	9.5	2.5104	15.6310
73726	C 12459	9.2	1.7080	25.7422	74158	C 12614	9.3	1.1585	20.6845	74675	C 12782	9.1	3.2729	16.0477
73419	B 8212	6.9	1.7624	2.2248	74147	C 12620	9.2	2.1203	19.3379	74696	C 12788	9.1	3.9414	16.1871
73514	B 8213	8.4	2.2269	10.0045	74129	C 12626	9.2	2.7588	18.2196	74729	C 12797	9.3	5.6874	17.2457
73692	C 12462	5.0	2.5268	21.9698	73999	B 8279	9.1	3.1624	12.3690	74326	B 8347	9.3	5.9901	1.2064
73651	C 12466	9.2	2.9855	19.0026	74203	C 12642	9.2	5.0410	23.2153	74873	C 12808	9.3	8.1135	22.1125
73635	C 12468	7.0	3.1266	18.4335	74132	C 12644	8.2	5.8367	18.3918	74629	C 12813	7.7	9.2803	13.8210
73402	B 8216	8.6	3.4633	0.9573	74215	C 12653	9.0	7.1875	24.0322	74876	C 12815	9.5	9.6508	22.3682
73408	B 8217	8.3	4.1818	1.7479	74162	C 12656	8.5	7.5878	20.5992	74680	C 12816	9.0	10.1257	16.0521
73636	C 12477	9.4	4.6890	18.3407	74206	C 12658	9.3	7.8083	23.4036	74825	C 12817	8.3	10.1424	20.2268
73728	C 12480	9.3	4.8980	25.1757	74134	C 12664	9.0	8.7895	18.4669	74967	C 12819	9.2	10.2141	25.4325
73485	B 8219	9.0	6.9787	8.3153	73817	B 8295	8.6	9.4704	1.5859	74905	C 12820	9.1	10.2503	23.1797
73460	B 8220	8.9	7.1489	6.1708	74175	C 12671	9.3	9.6213	21.3007	74493	B 8361	7.6	10.2840	7.2195
73667	C 12510	9.4	9.4952	20.5548	74195	C 12673	8.3	9.6762	22.8475	74788	C 12821	9.1	10.3687	19.8996
73603	C 12512	8.7	10.3409	16.7512	73948	B 8299	8.4	10.0855	9.6481	74789	C 12822	9.0	10.4418	19.1954
73718	C 12515	9.4	10.6719	24.7849	74176	C 12679	9.5	10.4917	21.6953	74879	C 12825	9.0	10.8259	22.5362
73429	B 8236	8.0	11.6862	3.1421	74046	C 12681	9.2	10.5719	14.0750	74655	C 12827	9.0	11.0187	14.2863
73697	C 12532	9.0	12.4125	22.6100	74209	C 12682	9.4	10.9548	23.6652	74706	C 12831	9.3	11.7034	16.4732
73430	B 8238	8.7	12.4490	3.3858	74219	C 12692	8.8	11.5959	24.0700	74543	B 8365	7.8	11.9222	9.6397
73431	B 8240	8.9	12.7314	3.9405	73872	B 8306	8.9	12.1583	4.7387	74970	C 12834	8.2	11.9941	25.7037
73432	B 8242	7.5	13.5663	3.7966	74210	C 12698	9.5	12.1710	23.8725	74584	B 8366	9.1	12.1523	11.6742
73720	C 12538	7.5	13.6415	24.7044	73873	B 8307	9.1	12.3515	4.6519	74356	B 8367	8.6	12.3291	2.5170
73642	C 12539	6.5	13.6631	18.8253	...	B 8309	9.0	12.6594	0.0305	74883	C 12837	7.8	12.6660	23.0477
73622	C 12543	9.2	14.3133	17.0516	74050	C 12709	8.5	14.1250	14.9981	74763	C 12840	9.4	12.8700	18.9712
73560	C 12550	8.7	15.1618	13.1613	74053	C 12720	9.0	15.2952	14.7424	74884	C 12845	9.5	13.2377	22.5253
73731	C 12556	9.2	15.7860	25.6225	73990	B 8316	8.2	15.4799	11.7871	74681	C 12847	4.0	13.3127	15.2217
73433	B 8247	8.7	15.7937	3.8593	74198	C 12737	9.4	18.1798	22.4397	74387	B 8371	9.0	13.4689	3.4368
73699	C 12561	8.5	16.2417	22.2813	73811	B 8325	8.3	19.1039	0.3773	74445	B 8372	8.2	13.8256	5.8593
73626	C 12566	8.4	16.7599	17.5846	74038	B 12746	6.7	19.1100	13.5826	74388	B 8373	8.2	14.3055	3.7677
73724	C 12578	9.5	19.0411	24.2272	74214	C 12750	8.6	19.9683	23.2167	74765	C 12855	9.0	15.0035	18.9069
73478	B 8257	9.0	19.1205	7.5193	73828	B 8331	7.5	20.7749	1.5269	74334	B 8380	8.4	15.4677	1.9237
73661	C 12585	8.9	19.4157	19.9044	74171	C 12757	9.0	21.1941	20.2673	74919	C 12865	8.5	16.7349	23.1296
73452	B 8258	8.1	19.5219	5.1029	73904	B 8337	8.7	21.7639	6.9836	74659	C 12867	7.0	16.8281	14.4727
73611	C 12586	8.5	19.7522	16.8658	74157	C 12768	9.0	22.8930	19.6239	74769	C 12873	8.0	17.7679	18.6887
					73922	B 8340	9.0	23.0678	7.5910	74660	C 12875	6.8	18.0043	14.2088
										74922	C 12889	9.0	20.0505	23.4400
										74711	C 12891	9.5	20.6284	16.6620
										74349	B 8401	8.5	21.7281	1.2232
										74456	B 8402	8.9	21.7387	5.8597
										74928	C 12905	9.5	22.5713	23.2685
										74350	B 8406	7.6	22.9122	1.0364
										74590	B 8407	9.0	23.1867	11.1955
										74324	B 8409	8.6	23.7780	0.1093
										74688	C 12920	7.7	24.8829	15.9824
										74981	C 12922	9.0	25.2211	25.5501
										74810	C 12924	8.8	25.9332	19.1640
										74643	C 12923	9.3	25.9688	13.1578

Cambridge or Berlin A. G. C.					Cambridge or Berlin A. G. C.					Cambridge or Berlin A. G. C.				
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Plate 2291. R.A. 21 ^h 48 ^m					R.A. 21 ^h 56 ^m (continued)					R.A. 22 ^h 12 ^m (continued)				
75290	C 12905	9.5	0.9693	23.2871	76097	C 13113	8.0	16.0986	23.7531	77389	C 13299	9.5	5.8733	14.8661
75010	B 8406	7.6	0.9822	1.0515	75501	B 8494	9.0	17.9892	4.4327	77423	C 13300	9.5	6.1388	15.3973
75124	B 8407	9.0	1.4065	11.2059	76044	C 13123	9.0	18.1516	21.6484	77393	C 13307	9.1	8.2856	14.6575
75002	B 8409	8.6	1.8342	0.1120	75950	C 13126	9.3	18.5386	18.6559	77395	C 13310	9.5	8.9398	15.0053
75182	C 12920	7.7	3.1733	15.9671	75860	C 13141	9.2	20.9376	16.0800	77429	C 13318	8.8	10.1849	16.0231
75311	C 12922	9.0	3.6524	25.5283	75981	C 13143	9.0	21.2363	20.1581	77115	B 8578	8.9	11.0169	6.1930
75148	C 12923	9.3	4.2171	13.1269	75461	B 8498	8.9	21.5240	2.7322	76932	B 8579	8.7	11.4322	1.4860
75228	C 12924	8.8	4.2700	19.1326	75462	B 8499	9.4	21.6355	2.6193	76908	B 8580	8.4	11.4863	0.8769
75197	C 12926	9.2	4.4992	17.2328	76073	C 13148	9.5	22.4136	22.8784	77679	C 13325	8.5	12.1786	22.2835
75229	C 12938	8.9	6.1079	19.3286	75840	C 13153	7.5	23.7123	15.1262	76937	B 8585	8.8	13.6074	1.5063
75162	C 12940	7.5	6.6388	14.5658	75841	C 13167	8.8	25.4439	15.1585	77622	C 13337	9.4	14.4120	20.1493
75210	C 12941	8.4	6.6894	18.1375						77042	B 8589	8.6	14.8214	4.7403
75090	B 8427	8.6	7.6252	7.5672						77722	C 13340	7.5	15.0817	23.6396
75047	B 8432	8.4	11.0067	3.6246						77329	C 13351	8.8	17.4416	12.9467
75152	C 12958	8.8	11.6565	13.6209						77125	B 8594	8.4	18.2162	7.0066
75101	B 8438	8.5	13.1955	8.0219						77477	C 13357	7.7	18.6669	16.2880
75060	B 8439	9.0	13.4087	4.8944						77127	B 8597	8.8	19.3631	6.6455
75070	B 8440	8.4	13.4500	5.5321						76980	B 8598	8.8	19.4037	2.8124
75245	C 12967	9.4	13.5547	19.9880						77441	C 13366	7.4	21.7924	15.7011
75218	C 12970	5.3	14.3865	18.4547						76947	B 8605	8.8	23.3448	1.5207
75188	C 12973	8.4	14.8771	16.4631						77138	B 8607	8.3	24.1015	6.4852
75165	C 12978	8.9	16.3274	14.8830						77337	B 8608	8.5	25.4673	12.3735
75129	B 8446	8.7	16.4951	11.5181										
75142	B 8447	8.2	17.2923	12.3932										
75130	B 8449	9.3	19.8451	11.8559										
75131	C 12990	9.0	19.8540	11.8787										
75143	B 8451	9.0	19.9302	12.0639										
75221	C 12996	9.2	20.6676	18.0674										
75222	C 12998	8.7	20.8382	18.5244										
75097	B 8454	8.0	21.1693	7.7895										
75307	C 13008	8.5	21.9432	24.1961										
75308	C 13014	9.5	22.3774	24.2379										
75309	C 13020	8.8	23.1838	24.7157										
75298	C 13022	8.8	23.2788	23.8034										
75264	C 13024	8.8	23.7702	21.9578										
75121	B 8465	8.2	24.9465	10.5533										
Plate 1210. R.A. 21 ^h 56 ^m														
76103	C 13008	8.5	0.3548	24.2242	76738	C 13148	9.5	0.8058	22.8996					
76104	C 13014	9.5	0.7896	24.2594	76533	C 13153	7.5	1.9899	15.1283					
76105	C 13020	8.8	1.6030	24.7249	76534	C 13167	8.8	3.7217	15.1350					
76075	C 13022	8.8	1.6845	23.8112	76536	C 13177	9.0	5.2379	15.6546					
76025	C 13024	8.8	2.1487	21.9583	76393	B 8520	8.6	6.3580	9.6083					
75676	B 8465	8.2	3.1566	10.5379	76394	B 8521	7.4	6.9656	8.9850					
75496	B 8470	8.3	5.6356	4.2707	76583	C 13191	8.7	8.4819	17.3944					
76131	C 13050	8.6	6.2725	25.7692	76440	B 8525	4.0	8.4985	11.2828					
75817	C 13056	9.5	6.9787	14.6560	76396	B 8526	8.6	8.5035	8.8857					
75963	C 13058	9.0	7.4860	19.4227	76514	C 13202	8.3	9.9286	14.7785					
75849	C 13061	9.4	7.9517	15.4975	76351	B 8531	8.1	10.3225	7.3381					
76114	C 13079	9.0	10.6857	24.4616	76745	C 13206	8.6	10.5010	23.4647					
75684	B 8479	8.6	11.1553	10.9034	76566	C 13210	9.4	11.2832	16.3010					
76037	C 13082	9.0	11.3051	21.1257	76491	C 13215	7.0	12.1113	13.6656					
75856	C 13087	9.4	12.2866	15.4902	76796	C 13229	9.3	15.1120	25.6577					
76116	C 13093	8.3	13.2661	24.8445	76250	B 8545	8.6	16.8822	1.9150					
75827	C 13098	9.0	14.0998	14.5011	76448	B 8546	8.2	17.7244	11.2388					
76141	C 13100	9.3	14.1784	25.1024	76571	C 13246	8.5	19.2066	16.8817					
75433	B 8487	8.6	15.6219	1.9973	76235	B 8552	8.6	19.2953	0.9557					
75589	B 8490	8.6	16.0102	7.9366	76300	B 8553	8.5	20.4631	4.4981					
					76683	C 13263	8.6	21.2138	20.6211					
					76528	C 13266	9.4	21.9218	14.1284					
					76651	C 13267	8.0	22.1207	19.5127					
					76782	C 13268	9.3	22.4169	24.8172					
					76337	B 8557	6.5	22.5179	6.5118					
					76503	C 13271	8.3	23.1653	12.9079					
					76478	C 13278	9.4	24.3921	12.8380					
					76632	C 13283	6.8	25.3753	18.4620					

Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.			
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R.A. 22 ^h 28 ^m (continued)					Plate 246. R.A. 22 ^h 44 ^m					Plate 871. R.A. 23 ^h 0 ^m				
79096	C 13501	8.5	9.3548	22.1289	...	B 8730	9.2	0.2888	3.5467	80580	C 13831	9.3	1.4504	17.9544
78895	C 13509	9.2	10.9745	15.0373	79690	B 8734	9.1	3.6653	6.5359	80688	C 13833	8.5	2.1118	24.6315
78836	C 13517	8.1	12.0341	13.3690	79691	B 8735	9.5	3.7690	6.5928	80414	B 8824	8.8	3.1267	1.8111
78865	C 13518	8.1	12.1037	13.8960	79897	C 13681	8.6	4.0992	17.4540	80633	C 13847	8.9	7.1478	20.6209
79140	C 13521	8.4	13.1399	23.7341	79971	C 13691	9.4	5.6738	21.2201	80524	C 13854	8.6	8.8482	12.8498
78552	B 8669	8.7	13.2027	2.2434	79920	C 13695	9.0	6.0978	18.1359	80493	B 8842	8.9	10.4388	8.5578
78898	C 13523	8.4	13.4693	14.9128	79940	C 13698	9.8	7.4128	18.9122	80700	C 13866	9.3	12.1756	24.1185
78649	B 8673	9.0	14.4861	5.0796	79843	C 13699	8.4	7.4571	14.0117	80412	B 8846	7.4	13.5145	0.7869
78989	C 13530	8.7	14.9530	18.5051	79880	C 13700	7.6	7.5060	16.3357	80517	B 8847	8.7	13.6741	11.5404
78723	B 8674	8.4	15.6285	8.0639	79610	B 8749	9.3	8.0725	1.8560	80619	C 13875	9.5	14.6600	19.3634
78842	C 13544	9.1	17.2682	13.8318	79713	B 8750	8.9	8.3432	7.6393	80425	B 8848	7.7	14.6719	2.3611
79146	C 13545	8.4	17.5013	23.4403	79941	C 13706	9.1	9.1503	19.5236	80606	C 13876	7.7	14.6892	18.6371
...	C 13547	6.8	18.1215	25.9889	79901	C 13713	8.3	11.3276	17.5871	80483	B 8853	8.5	16.6655	7.7294
78873	C 13550	9.3	18.5428	13.9377	79796	B 8758	9.0	12.3425	11.0118	80621	C 13882	9.5	17.0734	19.2155
79147	C 13556	9.5	19.6093	23.2754	79925	C 13718	8.0	12.8957	18.7208	80484	B 8854	8.6	17.6960	8.0525
78845	C 13559	9.5	19.8559	13.5179	79959	C 13722	9.5	13.1768	20.6530	80470	B 8856	8.8	18.4242	6.8619
78907	C 13560	8.5	19.8939	15.1885	80021	C 13726	7.5	14.1301	24.8174	80520	C 13894	5.0	19.0954	12.1546
79022	C 13561	8.5	20.0061	19.2614	79702	B 8761	8.8	14.9171	6.4777	80685	C 13899	9.5	20.8174	23.1722
78819	B 8680	7.8	21.0014	12.1476	79620	B 8764	4.0	16.2097	1.8871	80705	C 13911	8.8	22.6722	24.9609
79190	C 13573	8.8	23.3962	25.8236	79606	B 8765	8.5	17.1866	0.9991	80487	B 8866	8.7	23.8182	7.3697
79121	C 13574	9.0	23.4977	22.8877	79638	B 8767	8.7	18.0039	2.0843	80676	C 13917	8.0	24.2607	22.3340
78523	B 8686	9.0	24.0956	0.1966	79817	B 8770	8.6	18.2809	12.3044					
78634	B 8691	9.1	25.6513	4.4755	80008	C 13743	6.7	20.1725	23.3432					
78970	C 13587	8.6	25.7543	16.9339	80009	C 13746	9.0	20.7896	23.0733					
Plate 870. R.A. 22 ^h 36 ^m					Plate 1232. R.A. 22 ^h 52 ^m					Plate 2292. R.A. 23 ^h 8 ^m				
79571	C 13573	8.8	1.8318	25.8294	80291	C 13768	9.5	4.6691	18.2600	81178	C 13911	8.8	1.0951	24.9779
79524	C 13574	9.0	1.8900	22.8923	80213	B 8779	9.3	4.8402	11.1527	80898	B 8866	8.7	1.9816	7.3712
...	B 8686	9.0	2.1531	0.1947	80274	C 13773	9.0	6.0837	17.7332	81122	C 13917	8.0	2.6447	22.3271
79265	B 8691	9.1	3.7716	4.4508	80250	C 13778	9.0	7.7501	15.6715	81140	C 13931	9.5	5.8149	23.1631
79434	C 13587	8.6	4.0584	16.9056	80251	C 13779	9.2	7.8754	15.9274	80843	B 8873	9.2	6.6529	3.5756
79541	C 13592	8.0	5.0238	23.8517	80306	C 13782	9.0	8.7560	19.9947	81161	C 13933	7.2	7.1352	24.7820
79478	C 13593	8.9	5.1541	19.7856	80130	C 13782	9.0	8.7560	19.9947	81124	C 13934	8.2	7.4877	22.8756
79310	B 8696	8.9	5.9550	7.4794	80130	B 8790	9.2	11.0684	2.3937	81144	C 13935	8.9	7.9048	23.8542
79268	B 8698	8.7	7.9038	4.7034	80337	C 13791	8.9	13.1663	21.2974	80845	B 8876	9.1	8.0269	2.9624
79465	C 13619	9.0	9.4367	19.1157	80252	C 13792	9.5	13.3157	15.6680	80935	B 8877	8.0	8.0898	10.9048
79512	C 13620	8.9	9.8160	21.5139	80369	C 13794	8.5	13.3384	23.2494	80991	C 13943	9.0	9.0261	14.1467
79455	C 13624	8.9	10.7986	17.5350	80131	B 8793	8.5	13.5571	2.7701	80974	C 13949	9.1	9.6687	13.5558
79357	B 8704	9.1	10.8097	11.3069	80124	B 8794	9.0	13.6990	1.9075	80820	B 8880	9.2	10.0303	1.8346
79372	B 8709	9.1	13.0126	12.1453	80338	C 13804	10.0	16.4836	21.1235	81083	C 13951	8.8	10.2068	19.1941
79327	B 8711	7.2	13.6737	9.2698	80326	C 13811	9.0	18.0682	20.8700	80901	B 8881	9.3	11.3015	7.4432
79275	B 8716	9.1	14.7443	4.8016	80159	B 8804	8.5	18.8777	5.6514	80807	B 8882	8.8	11.4369	0.7999
79580	C 13640	9.0	15.1085	25.8931	80218	B 8806	9.2	19.1890	11.4743	81034	C 13953	8.4	11.6697	16.7259
79441	C 13657	9.5	19.1360	17.3121	80340	C 13818	9.5	19.2180	21.4280	80977	C 13958	8.2	12.4971	13.3581
79489	C 13661	9.5	20.0464	19.8891	80184	B 8808	8.5	20.3188	7.9547	81186	C 13964	9.0	13.3631	25.1845
79424	C 13662	8.7	20.4380	16.1416	80282	C 13823	8.8	20.9015	17.1658	81097	C 13966	9.5	13.7177	20.6325
79553	C 13663	8.7	20.4916	24.2134	80245	C 13824	8.3	20.9566	14.3176	81131	C 13970	9.4	14.9100	22.4548
79262	B 8730	9.2	22.1822	3.5213	80285	C 13831	9.3	23.1310	17.9437	80949	B 8892	8.1	15.9748	11.9457
79305	B 8734	9.1	25.5142	6.5589	80379	C 13833	8.5	23.6939	24.6301	81052	C 13981	9.4	17.6154	17.5000
79306	B 8735	9.5	25.6170	6.6171	80127	B 8824	8.8	25.0445	1.8266	81135	C 13984	8.5	18.3077	22.3292
79461	C 13681	8.6	25.7871	17.4831						80999	C 13986	9.0	18.9979	14.2839
										80984	C 13987	9.3	19.3779	13.8318
										81072	C 13988	9.0	19.3885	18.6932
										80965	B 8898	8.2	19.5579	12.4782
										81041	C 13989	8.0	19.6955	16.8081
										81000	C 13990	7.0	19.7299	14.5353
										81151	C 13991	9.5	20.2207	23.8803
										80877	B 8902	8.5	20.3429	5.7664
										80853	B 8904	6.8	21.3016	3.7270
										80968	B 8907	8.8	22.4473	12.1263
										81100	C 13997	8.6	22.4876	20.9747

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Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.				Oxford No.	Cambridge or Berlin A. G. C.			
+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.		+25°.	Number.	Mag.	1900°0.	
			ξ'.	η'.				ξ'.	η'.				ξ'.	η'.
Plate 247. R.A. 23 ^h 48 ^m					R.A. 23 ^h 48 ^m (continued)					R.A. 23 ^h 56 ^m (continued)				
82755	B 9096	8·9	0·7061	7·3207	82902	C 14339	9·5	16·5499	19·2477	83061	B 9157	4·8	3·8967	8·0562
82834	C 14290	6·8	0·7310	14·2404	82903	C 14343	9·3	17·8791	19·1740	83134	C 14378	9·0	5·0103	15·3208
82967	C 14291	9·0	0·9152	25·2935	82880	C 14349	6·3	19·2212	17·7987	83097	B 9168	9·1	6·8944	11·9913
82931	C 14295	8·9	1·8673	22·1568	82773	B 9142	8·9	20·0176	8·0852	83181	C 14382	8·5	7·0675	19·7014
82892	C 14298	9·0	2·3132	19·1254	82703	B 9144	8·8	21·0148	0·2509	83233	C 14381	8·3	7·0776	25·8713
82739	B 9099	8·9	2·4553	6·2235	82798	B 9147	8·6	21·2347	10·4095	83103	C 14383	8·9	7·2590	13·2828
82792	B 9101	8·2	2·7965	10·5241	82763	B 9155	9·0	24·8382	7·6825	83033	B 9172	9·2	7·7331	4·0019
82843	C 14303	8·6	3·2486	15·5869	82943	C 14373	9·4	25·1920	22·0256	83027	B 9173	8·9	8·1988	3·5093
82905	C 14308	8·7	4·3288	20·2101	82799	B 9156	8·8	25·4223	10·2344	83064	B 9176	8·9	9·6209	8·8600
82719	B 9108	7·7	5·1206	4·6410	82776	B 9157	4·8	25·7234	8·0826	83126	C 14390	9·0	9·6482	14·3061
82932	C 14310	8·7	5·6862	22·3467						83145	C 14395	7·8	11·3345	16·4612
82782	B 9109	8·4	6·5394	9·9472						83011	B 9181	8·8	12·0481	1·3325
82766	B 9111	8·9	6·5921	8·5849						83075	B 9186	8·9	14·9662	9·2613
82921	C 14317	8·9	7·9653	21·0469						83185	C 14410	8·6	15·0619	19·7303
82794	B 9117	8·8	9·2415	10·6991						83216	C 14411	9·3	15·1350	22·7993
82747	B 9118	8·9	10·1552	6·4499						83068	B 9192	8·9	16·7210	8·0759
82972	C 14324	9·5	10·5905	25·3068						83007	B 9193	9·1	17·3046	0·9634
82846	C 14328	8·7	11·7991	15·7055						83238	C 14423	9·5	20·3724	26·0028
82723	B 9123	9·2	12·7967	4·2335						83024	B 9201	9·2	22·3713	2·7612
82888	C 14333	7·5	13·0790	18·3261						83025	B 9202	9·0	22·9737	2·7679
82711	B 9128	9·0	14·7356	2·5155						83231	C 14440	9·5	25·3746	24·7338
82812	B 9130	9·3	15·3234	11·2415										
82761	B 9132	8·0	16·3494	7·9363										

LIST OF CORRECTED CAMBRIDGE PLACES.

The places of the following stars given in the Cambridge *Astronomische Gesellschaft* Catalogue for 1875·0 were found to require substantial corrections. The revised places for 1900·0 (as determined by new meridian observations made at Cambridge, checked by examination of the Oxford plates) are given below, and in Vol. III., p. 223, Vol. IV. p. 233, Vol. V. p. 229, and Vol. VI. p. 253, for those stars which occur in the *Oxford Astrographic Catalogue*, Vol. VII.

No. in Cambridge A. G. C.	New No.	R. A. Cambridge 1900°0.	Dec. Cambridge 1900°0.
880	872 <i>a</i>	h m s 1 28 26.59	+24 55' 28.6"
1096	1096 <i>a</i>	1 55 7.20	+25 47 22.4
7086	7086	15 3 9.33	+25 18 11.7

ASTROGRAPHIC CATALOGUE, 1900·0.

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